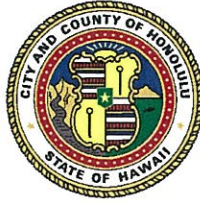


PLANNING COMMISSION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
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KIRK CALDWELL
MAYOR



DEAN I. HAZAMA, Chair
CORD D. ANDERSON, Vice-Chair
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DANIEL S. M. YOUNG
STEVEN S. C. LIM
WILFRED A. CHANG, JR.
KEN K. YASHIDA

February 10, 2015

The Honorable Ernest Y. Martin
Chair and Presiding Officer
and Members
Honolulu City Council
530 South King Street, Room 202
Honolulu, Hawaii 96813

RECEIVED
CITY CLERK
& C OF HONOLULU
2015 FEB 19 PM 2:36

Dear Chair Martin and Councilmembers:

SUBJECT: Kalihi Neighborhood Transit-Oriented Development Plan

The Planning Commission held a public hearing on February 4, 2015 on the above subject matter. One written and no public testimony was received. The public hearing was closed on February 4, 2015.

The Planning Commission voted on February 4, 2015 to recommend approval.

Attached is the draft final plan, draft resolution, and transmittal package from the Director of the Department of Planning and Permitting.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dean I. Hazama".

Dean I. Hazama, Chair
Planning Commission

Attachments

APPROVED:

A handwritten signature in black ink, appearing to read "Kirk Caldwell".

Kirk Caldwell
Mayor

A handwritten signature in black ink, appearing to read "Roy K. Amemiya, Jr.".

Roy K. Amemiya, Jr.
Managing Director Designate

APPROVED:

A handwritten signature in blue ink, appearing to read "George I. Atta".

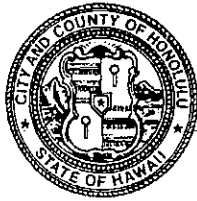
George I. Atta, FAICP, Director
Department of Planning and Permitting

Authorization George I. Atta
Advertisement Jan. 23, 2015
Public Hearing Feb. 4, 2015

DEPARTMENT OF PLANNING AND PERMITTING

CITY AND COUNTY OF HONOLULU
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KIRK CALDWELL
MAYOR



GEORGE I. ATTA, FAICP
DIRECTOR

ARTHUR D. CHALLACOMBE
DEPUTY DIRECTOR

January 6, 2015

MEMORANDUM

TO: Dean I. Hazama, Chair
and Members of the Planning Commission
FROM: *George I. Atta*
George I. Atta, FAICP, Director
Department of Planning and Permitting

SUBJECT: Kalihi Neighborhood Transit-Oriented Development Plan

2015 JAN 15 AM 10 06
DEPT OF PLANNING
AND PERMITTING
CITY & COUNTY OF HONOLULU

We are pleased to transmit for appropriate action the Kalihi Neighborhood Transit-Oriented Development (TOD) Plan (the Plan). Also enclosed are a draft resolution approving the Plan, a background report, and a booklet that summarizes the Plan.

This is the third neighborhood TOD Plan we are processing for formal City recognition and adoption. The Planning Commission (PC) previously recommended approval of the Waipahu Neighborhood TOD Plan and Aiea-Pearl City Neighborhood TOD Plan, which were both adopted by the City Council in 2014. Although not required by law, we are submitting the Plan to the PC in the spirit of maximizing community review. Also, given that the Plan directs changes to the zoning code (in the form of Land Use Ordinance amendments), it would be helpful for the Commission to review the basis of these amendments.

Once action is taken by the PC, the package is to be sent to the City Council for action. The PC may recommend approval of the resolution and Plan, or recommend rejection. It may also recommend approval with specified changes, or it may choose to take no action.

This Plan addresses the planning requirements of Ordinance 09-4, which outlines the City's TOD strategies. The Ordinance also sets forth the requirements for TOD zoning. A copy of this Ordinance is enclosed.

We are in the process of completing five additional TOD plans. Each plan covers one to three transit station areas. The subject Plan covers three stations. In the months to come, we will be submitting additional plans for your consideration.

Dean I. Hazama, Chair
and Members of the Planning Commission
January 6, 2015
Page 2

As each TOD neighborhood area is unique, we want to develop sets of policies and regulations that make sense from a collective, regional standpoint, as well as from the individual neighborhood and station area perspective.

We look forward to your consideration of this proposal. Please report and forward your findings and recommendation via the Mayor to the City Council.

GIA:kh

Enclosures:

1. Kalihi Neighborhood TOD Plan
2. Draft Resolution
3. Background Report
4. Executive Summary Booklet
5. Ordinance 09-4

cc: Roy K. Amemiya, Jr., Managing Director Designate

Transmittal Package

- **Written Testimony**
- **Background Report**
- **Executive Summary Booklet**
- **Ordinance 09-4**

Written Testimony

Planning Commission

February 4, 2015

RECEIVED

'15 FEB -6 P2:02

January 20, 2015

Dean Hazama, Chair
City and County of Honolulu
Planning Commission
650 South King Street, 7th Floor
Honolulu, HI 96813

DEPT OF PLANNING
AND PERMITTING
CITY & COUNTY OF HONOLULU

Subject: KALIHI NEIGHBORHOOD TRANSIT-ORIENTED DEVELOPMENT PLAN

Dear Chair Hazama:

PRP is a not-for-profit organization that represents the Hawaii Regional Council of Carpenters, the largest construction union in the state, and more than 240 of Hawaii's top contractors. Through this unique partnership, PRP has become an influential voice for responsible construction and an advocate for creating a stronger, more sustainable Hawaii in a way that promotes a vibrant economy, creates jobs and enhances the quality of life for all residents.

We have always been a staunch supporter of Transit Oriented Development (TOD), the sustainable, smart growth, transit-ready, mixed-use community is the type of catalytic project that will help us maximize the public investment in the rail transit project. The pedestrian friendly, walkable, integrated community development will revitalize and enhance the existing neighborhood's character and sense of place, adding new amenities for the Kalihi community.

According to the Community Survey Findings in the Kalihi Neighborhood TOD (Draft Final) Plan, Kalihi residents value and appreciate the neighborhood's convenient access to bus transit, jobs, shopping and affordable housing; value the neighborhood's parks/landscaping, schools, small retail shops, and Bishop Museum; identify the highest priorities for improvement as safety measures, road improvements, cleanliness and overall appearance; support sidewalks improvements, additional parking, more affordable housing, and additional children's playgrounds and parks; support improving landscaping, seating, crosswalks, street lighting, and bus shelters as the top priorities for street and streetscape improvements; and would like to see coffee shops, restaurants, pharmacies, and convenience/grocery stores around rail stations; and support parks, retail stores, and parking structures along Kapalama Canal.

The Kalihi Neighborhood TOD Plan promotes a vital mixed-use district, with a new neighborhood in Kapalama, more diverse housing and employment opportunities, reinvigorated educational centers, new open spaces, a promenade along Kapalama Canal, and a multi-modal circulation network connecting residents and workers to key destinations, homes, and jobs.



The TOD plan promotes a mixture of housing choices near the transit stations, including a variety of price options, housing types, and unit sizes to support a wide range of households. The plan objective is to promote revitalization around each rail station and to increase the existing housing stock.

Each TOD area is definitely unique with its own set of recommendations, but each shares its goals of becoming livable, transit enhanced and connected neighborhoods.

Thank you for allowing us to share our opinion and we respectfully request your continued support in moving TOD forward.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brooke Wilson', with a stylized, flowing script.

Brooke Wilson
Government Relations Manager

Background Report

KALIHI NEIGHBORHOOD
TRANSIT-ORIENTED DEVELOPMENT (TOD) PLAN
BACKGROUND REPORT
December 29, 2014

A. Background

Planning for transit-oriented development (TOD) around the Honolulu Rail Transit stations began soon after planning for the rail system began. In March 2009, City Council adopted Ordinance 09-4, outlining an overall TOD planning strategy.

Highlights of Ordinance 09-4:

- Neighborhood TOD plans are to be the basis for TOD zoning.
- Neighborhood TOD plans are to address economic revitalization, neighborhood character, unique historic and other community resources, circulation, and affordable housing.
- The process of creating the TOD plans is to be inclusive, open to all stakeholders.
- TOD zoning will be added to the Land Use Ordinance (LUO) as special districts.

In the summer of 2013, the Department of Planning and Permitting (DPP) refined its overall vision for TOD with a planning framework - "One Island, One Community" – that sets the character typologies for TOD neighborhoods. The Middle Street station area is identified as a Major Destination/Employment Center, and the Kalihi and Kapalama station areas are to be Urban Neighborhoods.

The Kalihi Neighborhood TOD Plan (the Plan) is the third plan developed (in conjunction with the Downtown Neighborhood TOD Plan) by the DPP with assistance from the San Francisco-based planning firm Dyett & Bhatia.

Other plans are at various stages of completion. By 2015, neighborhood planning for 19 of the 21 transit station areas will be completed. Two station areas are not under the planning and zoning jurisdiction of the City & County of Honolulu, but under the Hawaii Community Development Authority (HCDA).

| <u>Plan Area</u> | <u>No. of Stations</u> | <u>Plan Status</u> |
|------------------|------------------------|--------------------|
| East Kapolei | 3 | Draft completed |
| Waipahu | 2 | Adopted |
| Aiea-Pearl City | 3 | Adopted |
| Åloha Stadium | 1 | Ongoing |
| Airport | 3 | Ongoing |
| Downtown | 3 | Draft completed |
| Ala Moana | 1 | Draft completed |
| Kakaako | 2 | HCDA |

Given that the transit system is not expected to be fully operational until 2019, it may seem premature to complete the TOD plans before then. However, many of the recommendations may take several years to address, especially upgrades to deficient infrastructure systems. Moreover, the experience of other cities is that once the rail is at, or near completion, the real estate market moves very quickly, and will not wait for

neighborhood planning. Therefore, TOD planning is being conducted on a proactive basis.

B. Planning Process

Although the recommendations may differ, the process for developing each neighborhood plan is essentially the same. Commonalities are:

- Analyses of existing neighborhood conditions and opportunities.
- Stakeholder interviews.
- Representative mail-in surveys solicit information on residents' needs and perceptions about their neighborhoods.
- Area business and property owner outreach.
- Use of an advisory committee with members representing a cross section of the community: residents, landowners, businesses, community organizations, government agencies, and elected officials.
- Maintenance of a mailing list of all interested individuals and organizations.
- Presentations at open community meetings to assess neighborhood opportunities and issues; comment on alternative development schemes and to comment on draft plans.
- All reports, presentations and meeting summaries are available on-line.

As the department completes the individual neighborhood plans, information is cumulatively assessed at the regional level -- for the transit corridor overall. For example, we know comparatively speaking, which neighborhoods are more primed for TOD than others based on market demand and infrastructure capacities. This understanding is used to build strategies for TOD in general, such as building a "tool box" of financing options, and creating priority options for capital improvement projects.

Other initiatives at the regional scale are also underway, including coordination with state agencies with facilities (existing and planned) near rail stations and development of state laws that support TOD.

C. Community Concerns

The following are key comments that were raised during the planning process by the community and are addressed by the Plan:

Safety:

- To improve the overall feeling of safety, the Plan proposes new residential development and active uses that, in conjunction with proposed development standards that require windows and doors facing public streets, would provide passive surveillance through additional "eyes on the street."
- The Plan recommends the addition of lighting throughout the station areas and various interventions to improve pedestrian safety.

Community Investment:

- The community expressed excitement about new housing, stores, and jobs in a neighborhood that has not seen mixed-use or market-rate housing development for some time.
- There is a strong community desire to improve the aesthetics and cleanliness of the neighborhood through improved maintenance, high-quality architecture, and the addition of landscaping in public places.

- The Plan recommends a community vision for a mix of uses on the Oahu Community Correctional Center (OCCC) site should the State relocate or redesign the facility.

Diversity:

- The community highly values Kalihi's small businesses, and the Plan encourages programs and developments that support their ability to remain and grow around the rail stations. And while City should not seek to preserve all industrial uses around the Kalihi rail stations due to their low intensity and low rail ridership potential, the Plan does recommend preserving the industrial mixed-use area makai of Dillingham Boulevard—one of the last industrial-commercial areas on the island where the businesses own the fee to their property.
- In conjunction with new market-rate housing, the Plan proposes a percentage of new affordable housing in the station areas to maintain Kalihi's demographic diversity.
- The broad mix of uses that currently exists in Kalihi is proposed to be preserved and strengthened through the expansion of mixed-use zoning.

Connectivity:

- Despite the fact that more than half of Kalihi residents already commute by alternative modes, pedestrian and bicycle infrastructure is lacking in all three station areas. The Plan proposes a network of new/improved sidewalks and street crossings, bicycle facilities, and promenades/trails to create a walkable and liveable community.
- Street space in the Kalihi station area, much of which is privately owned, has many competing uses—commercial parking and loading, residential parking, pedestrians, bicycle and vehicular traffic. The Plan proposes simple design strategies to better define space for these often-conflicting demands.
- Large superblocks exist in the Middle Street and Kapalama station areas due to their history of industrial uses. The Plan proposes new street connections to make the areas more walkable and supportive of urban development.

Public Spaces:

- To address Kalihi's severe park deficiency, the Plan proposes new park space in concert with new TOD. These spaces should be bordered by active uses and may benefit from private maintenance and management.
- The Plan recommends improvement of Kapalama Canal from a drainage facility to a community amenity, as envisioned in the 2004 Kalihi-Palama Action Plan. The linear park would be bordered by new residential and mixed-use development along Kohou Street and new campus buildings and gathering spaces at Honolulu Community College along Kokea Street.
- The Plan also proposes strategies for connecting area residents and employees to public spaces along Keehi Lagoon.

D. Major Plan Recommendations

The Kalihi Neighborhood TOD Plan recommends a Transit-Oriented Development Zone (TOD Zone) within ½-mile radius of the three Kalihi rail stations. The TOD Zone encompasses sites that have the most potential to support transit ridership and take advantage of transit proximity. Sites within the TOD Zone can generally be accessed from a station on foot in fewer than ten minutes.

In the TOD Zone, proposed uses are largely similar to existing industrial mixed-use (IMX-1) and commercial mixed-use zoning (BMX-3, BMX-4) districts. Heavy industrial uses, such as publishing plants and heavy manufacturing, would be prohibited. The existing single-family area mauka of the Kalihi station is proposed to remain under residential/apartment zoning.

Parking standards would roughly follow current standards from the BMX-4 district, although commercial uses may be exempted from any minimum requirement. It is also recommended that maximum parking limits be considered, but perhaps not immediately. An on-street parking permit system may be necessary in the Kalihi and Kapalama station areas to preserve parking for area businesses and residents.

E. Compliance with General Plan and Development Plans

In addition to compliance with Ordinance 09-4, the Kalihi Neighborhood TOD Plan is consistent with the Oahu General Plan. Specifically, it conforms to the following objectives and policies:

VII. Physical Development and Urban Design

Objective A. To coordinate changes in the physical environment of Oahu to ensure that all new developments are timely, well-designed, and appropriate for the areas in which they will be located.

Objective E. To create and maintain attractive, meaningful, and stimulating environments throughout Oahu.

The Kalihi station areas are part of the Primary Urban Center Development Plan (DP), as adopted under Section 24-5, Revised Ordinances of Honolulu. The TOD Plan is consistent with the DP vision elements (Chapter 2, DP):

- It encourages high-density mixed-use development near transit and in-town housing choices for people of all ages and incomes;
- It encourages a balanced transportation system for all modes of travel; and
- It promotes public open spaces along the waterfront and the strengthening of physical and visual connections to the water.

F. Next Steps

The TOD strategy acknowledges that the private sector, landowners and developers, determine whether TOD happens or not. The City has relatively little land to leverage into landmark TOD projects, nor does the City have the financial ability to acquire significant private lands for TOD. The State is a major landowner, but much of its property is committed, at least in the near term, to uses that may not be conducive to urban land uses (e.g., OCCC and Honolulu International Airport).

Therefore, the TOD strategy is largely dependent upon private sector development. Private developers are expected to build new housing, offices, and commercial spaces, and also help provide community benefits that not only benefit their projects, but the larger community. These benefits include affordable housing (new construction and preservation of existing units), more park space and publicly accessible open space, new bike paths, and improved sidewalk areas.

There is a balance between what the private sector can afford to provide and what the community wants. Ideally, much of this balance will be defined in forthcoming

amendments to the LUO. For example, for additional building height, how much open space should be required? What specific incentives can be offered in return for more affordable housing?

Thus the immediate step is to determine specific regulatory and incentive-based proposals to encourage good TOD projects. Expanded financing incentives can also help accelerate TOD and community benefits. The fruition of good TOD projects depends on a reasonable balance between private sector profits and community benefits, but also on the condition of the overall real estate market. It is the market that will also dictate how long it will take to fully implement all of the Plan's recommendations.

Additionally, the acceleration of critical infrastructure improvements can help to accelerate TOD and community benefits. Therefore, close coordination of capital improvement projects within the transit corridor is needed. For example, the City is working with Kamehameha Schools to ensure they have sewer capacity for their planned occupancy of new development in Kapalama. The City is also moving forward with a catalytic project to improve Kapalama Canal —with the intent of spurring other private sector investments in this area.

Exhibits:

1. Advisory Committee Members
2. Advisory Committee Meeting Minutes
3. Community Workshop Summaries, PowerPoint Presentations, and Sign-In Sheets
4. DPP Response to Public Review Draft Comments

BkgdRpt

Exhibit 1

Kalihi Neighborhood TOD Plan Advisory Committee Members

- Nicholas Birch, Hawaii Public Housing Authority
- Catherine Camp, Kamehameha Schools
- Linda Chinn, Department of Hawaiian Home Lands - Land Management Division
- Cardy Fang, Kalihi-Palama Neighborhood Board No. 15
- Brian Furuto, Honolulu Community College
- Dennis Galolo, Honolulu City Council
- Randy Grune, Department of Transportation - Harbors Division
- Donald Guerrero, Kalihi-Palama Neighborhood Board No. 15
- Dean Hamada, CORE Realty
- Ronald Higashi, Susannah Wesley Community Center
- Bridget Holthus, Department of Community Services
- Dominic Inocelda, Susannah Wesley Community Center
- Roy Ishihara, Marukai Wholesale Mart
- Ron Jones, Kalihi Business Association
- Brian Kashiwaeda, University of Hawaii Community College System
- Brian Maeshiro, Action Realty Corporation/Kalihi Business Association
- Joey Manahan, Honolulu City Council
- Aki Marceau, HART
- Camille Masutomi, Department of Education
- Jerry Matsunaka, First Hawaiian Bank
- Samuel Moku, Department of Community Services
- Pauni Nagaseu-Escue, Palama Settlement
- Bob Nakata, FACE
- Jon Y. Nouchi, Oahu Transit Services, Inc.
- Neal Okabayashi, First Hawaiian Bank
- Mike Rota, Honolulu Community College
- Sue Sakai, AARP
- Jesse Souki, Department of Business, Economic Development & Tourism - Office of Planning
- Russell Y. Tsuji, Department of Land and Natural Resources - Land Division
- Denise M. Wise, Hawaii Public Housing Authority
- Wayne Yoshioka, Department of Transportation Services

Exhibit 2

City and County of Honolulu

Kalihi Neighborhood TOD Plan

Project Advisory Committee Meeting #1

May 26, 2011 • 6-8pm • Fasi Municipal Building, 9th Floor

Meeting Objectives

- Introduce the project, discuss the planning process, and present summary findings from the existing conditions analysis
- Brainstorm issues and vision for the Neighborhood TOD Plan area
- Discuss community workshop outreach and format

Meeting Summary

1. Welcome and Introductions of Staff and Consultant Team

Renee Espiau (City and County of Honolulu) welcomed participants to the meeting and introduced City staff and the consultant team. Rajeev Bhatia (Dyett & Bhatia) asked committee members to introduce themselves and their affiliation.

2. Advisory Committee

Mr. Bhatia explained the role of the advisory committee: to advise the planning process and provide a broad community perspective. He described that decision-making during meetings will be conducted through a consensus process, in which the group will agree on recommendations collectively. He defined ground rules for discussions, which included listening, respecting others' opinions, and allowing everyone a chance to speak. If members would like to share information, they are asked to provide documents or comments to Renee Espiau at least one week in advance of a meeting.

3. Neighborhood TOD Planning

Mr. Bhatia provided an overview of the project location and the purpose of the project to create a land use vision for the Kalihi TOD planning area. He defined transit-oriented development (TOD) as walkable compact communities centered around high quality transit systems. Successful TODs share several characteristics, which can be summarized under the rubric of "the three Ds": density, diversity, and design.

4. TOD Plan Process

Jean Eisberg (Dyett & Bhatia) provided an overview of the project scope, schedule, and public outreach program. She described the contents and some key findings from the existing conditions report, including an analysis of overall community character, existing land uses, the quantity of park space, and the quality of the pedestrian network. Mr. Bhatia described the report's evaluation of potential development opportunity sites within walking distance of the three Kalihi stations: Kapalama, Kalihi and Middle Street.

5. Brainstorm Activity

Visioning

Advisory Committee members shared their individual visions for the future of the planning area by creating mock magazine headlines:

- Kalihi Palama's Immigrant Workers Get to Work in West and East Oahu in Record Times
- No Traffic Congestion in Kalihi: Whisk through Kalihi, Easily Accessible Mix of Uses, Parking Garages Keep Vehicles off the Street
- Transit Solves Kalihi Riddle: We Now Have Parking and Sidewalks
- Building Urban Communities: Live, Work, Play, Thrive. No More DUIs for Rainbow Fans.
- High Density, Mixed Income and Tenure, Low Vacancy (Units & Parcels), Affordable
- Finding Common Ground: The Community Connector Makes Living and Working a Breeze
- Today the University of Honolulu Approves a Parking and Housing Structure, Previously the Site of an Incinerator, and Space for Early Childhood Development Programming
- Everyone Benefits from TOD (Group collage: seniors, college students, business executive, housewife/husband, mechanic, fast food uniform, young kid, person with disabilities)
- Convenient and Accessible Community to Live, Work and Play (Image: school, church, homes, park, transit access)
- A Truly Successful TOD: Amazing Improvement to Overall Transportation Network in the Kalihi Neighborhood
- Kalihi Neighborhood TOD Plan Results in Dramatic and Substantial Upgrades to Existing Facilities and Residential Sites. Community Neighborhood Board Supports the Kalihi TOD Plan.
- Riverwalk Kalihi
- Hawaii Now Ranked 48th in Pedestrian Fatalities: Thanks to Complete Streets, Successful Rail Transit, Safe Routes to School
- Mauka to Makai: Redefining Kalihi's Diversity from Mountain to Ocean. Residential, Industrial, Real Mix of Uses. Traffic Tends to Go East-West, but Roads go Mauka to Makai.
- TOD Project Created Jobs and Affordable Housing, Led to Dramatic Reduction in Homeless
- New Multi-Family Housing Close to Town: Different Types of Uses, Music along the Riverwalk, Energetic Streets, Jobs Jobs Jobs, Thriving Retailers

Key Issues

Advisory Committee members shared their ideas and concerns about the future of the station areas in terms of the issue areas below.

Character and Identity

Committee members expressed an appreciation for the unique, affordable, small business nature of Kalihi, while at the same time identifying a desire for redevelopment and improvements to bolster jobs, housing opportunities, community facilities, and public safety. They wanted to improve the neighborhood without pricing out low-income households, and keep the small business character while expanding businesses and hours (for example, the neighborhood has great local food, but stores and restaurants close in the afternoon, so in the evenings the streets are deserted).

Land Use and Mix

Overall, Committee members wanted to provide more opportunities for people to live and work closer to Downtown. They saw each of the three station areas as distinct neighborhoods, with differing potential and challenges. The potential character and uses for each of these station areas is described below.

- Kapalama: Committee members saw the Kapalama station area as having potential for transformation into a walkable mixed-use community, with residential and business uses. Comments included:
 - Amend zoning to allow higher densities, mix of uses, and transition older industrial uses over time, while being respectful of existing businesses and residents
 - Create a college town atmosphere for Honolulu Community College students, including student housing and shops. Build off of existing retail presence and good eateries.
 - Create a promenade along the canal, with pedestrian paths, additional bridges, and lighting to ensure safety and make better mauka to makai connections—all the way to Nimitz Highway and the waterfront. Consider using the canal for local transit and recreation (e.g., boating).
 - Add residential units overlooking the canal ("eyes on the street"), including senior and moderate-income housing with a range of densities to accommodate various households.
- Kalihi: Committee members expressed uncertainty about the future vision for this station area, currently seen as the heart or center of Kalihi. On the one hand, they wanted to preserve the neighborhood's reputation for providing affordable housing and space for small businesses, including light industry. On the other hand, they acknowledged that the neighborhood should prepare for the planned rail system and consider the long-term future of the neighborhood. Comments included:
 - Reconsider zoning regulations for existing residential units. Many existing homes are non-conforming with current zoning regulations since they preceded the Land Use Ordinance. As a result, many homeowners have allowed their homes to fall into disrepair since they cannot make improvements without having to bring their properties into conformance with current regulations (i.e., parking, setbacks, and sidewalk regulations). Such changes would not allow them to rebuild to their existing specifications.
 - Recognize that lot consolidation will be difficult since this area has a large proportion of private individual land-owners.

- Treasure Kalihi for its diversity of uses and as one of the city's "best kept secrets." Consider ways to build on the range of businesses to attract more jobs and opportunities (e.g., food businesses and high-tech industries, which are already found in Kalihi).
- Consider the future of residential uses in the neighborhood: Should single-family homes remain along Dillingham, in light of the 30-foot high rail structure? Should the neighborhood continue to support new immigrants with affordable housing?
- **Middle Street:** Committee members expressed differing opinions about whether this station area should be left alone to market forces by instituting form-based standards or planned for to ensure that the area does not degrade further.
 - Consider a mix of industrial, airport-related hotel, and even residential uses.
 - Consider redevelopment opportunities between Dillingham Boulevard and Nimitz Highway and the future of the station area if Oahu Community Correctional Center were to close.

Transportation and Traffic

- **Connectivity:** Committee members acknowledged that the planning area has decent east-west connections, but that mauka-makai connections are lacking.
- **Parking:** Committee members acknowledged various parking issues in the neighborhood: a lack of parking for customers and employees of businesses; high parking requirements in the City's regulations; university students parking along the canal; and concerns about residents in West Oahu who park for free in Kalihi and ride the bus into Downtown.

They also identified potential solutions including: better bus and rail transit access to reduce the demand for driving and parking; building parking to satisfy current demand, but in a way that can later be transitioned to other uses; reducing or even doing away with minimum parking requirements; unbundling parking costs from housing costs; and allowing for shared use of parking between uses with different parking demand peak periods.

Parks, Public Facilities, and Streetscapes

- **Streetscapes:** Committee members wanted streets to become true public spaces with more landscaping and greenery, sidewalks and walking/biking paths, underground utility lines, plazas, and outdoor café seating. On the other hand, some participants were concerned that installing sidewalks—particularly on side streets—would reduce the on-street parking supply (many of these streets are private and property owners are unlikely to float a bond to finance improvements since they will lose parking).
- **Canal/Linear Park:** Committee members overwhelmingly supported a linear park or promenade along the canal that would include: walking and bicycle paths, upgrades to the existing seating and shades, and more lighting.
- **Public Safety:** Committee members were concerned about safety, especially at night. They recommended more lighting, a police sub-station, "eyes on the street" through day and night-time uses, and overall improvement in the quality of the neighborhood to reduce the presence of drug users, homeless persons, and people living in their cars along the canal.

6. Community Workshop Outreach and Format Discussion

Mr. Bhatia described the schedule and objectives for the upcoming community workshop on June 27, 2011

Committee members provided recommendations for how to publicize the workshop and how to engage participants during the event:

- Show visual examples of what TOD might look like through use of legos or pictures to determine preferences, as opposed to terminology like "multi-family housing." Show examples of how TOD has developed in other communities to help participants understand the benefits and drawbacks.
- Use aerial photos that allow participants to identify their homes and places that are important to them.
- Acknowledge how TOD can benefit or impact them, answering the question: Why is this important to me? Am I going to have to move? What will I get out of it? Will it solve my parking problem?
- Publicize through community associations, condo resident groups, general meeting for public housing, citizen patrols, churches, and in front of Long's Drugs. Realize that most people who will actually benefit do not show up for community meetings.
- Small meetings, small groups, going to groups, not asking them come to you. Childcare is an issue, especially for women.
- Target the youth, since they will ultimately be using the rail, by going to schools. Note that Honolulu Community College is not fully back in session until August.

7. Conclusion and Next Steps

- Advisory Committee members were asked to contact their networks to publicize Community Workshop #1: Monday, June 27, 2011, 6-8pm at the Kalakaua Middle School Cafeteria, 821 Kalihi Street.
- The next Advisory Committee Meeting #2 will be held Wednesday, June 29, 2011, from 6 to 8 pm at the Kalakaua Middle School Library, 821 Kalihi Street.

8. Adjournment

Meeting adjourned at 8:00 pm.

City and County of Honolulu
Kalihi Neighborhood TOD Plan

Advisory Committee Meeting #2
June 29, 2011 • 6-8 pm • Kalakaua Middle School Library

Meeting Objectives

- Debrief on Community Workshop #1
- Formalize TOD Plan vision and planning principles
- Brainstorm station area alternatives

Meeting Summary

1. Welcome

Renee Espiau (City and County of Honolulu) welcomed participants to the meeting and introduced City staff and the consultant team. Rajeev Bhatia (Dyett & Bhatia) asked committee members to reintroduce themselves and their affiliation, as appropriate.

2. Community Workshop Debrief (Group)

Mr. Bhatia summarized the format of the workshop: a visioning activity and community mapping exercise. He then asked for feedback on the workshop from committee members who were in attendance. Overall, committee members thought the meeting went well and participants provided good input. One committee member suggested providing more explanation of the visioning exercise. Several committee members thought that the press was distracting during the workshop.

3. Vision & Planning Principles Refinement (Rajeev Bhatia)

Mr. Bhatia and Ms. Espiau described the purpose and elements of the proposed draft vision and planning principles. Mr. Bhatia also described ideas for each station area that emerged during previous community outreach activities.

Committee members provided feedback on the vision and principles:

- Find a balance between a resistance to change in Kalihi and the recognition that the neighborhood could benefit from revitalization. Maybe residential areas are targeted for preservation while commercial areas are more intended for revitalization.
- Determine whether a single vision should encompass the entire corridor or three visions expressed—one for each station.
- Concern about the word “inclusive” since some groups have not integrated well into the neighborhood.

- Create policies to maintain affordable housing and low rents/fee simple ownership for small businesses.
- Provide consistency at each station, so user expects certain services and amenities (e.g. walkable, bikable, safe, well-lit).
- Strengthen connectivity to the water/ocean.

4. Brainstorming Activity on Alternative Concepts (Group)

Mr. Bhatia described the purpose and process for the alternatives phase of the project. The Committee was split into two smaller groups to brainstorm concepts, including land uses and mix, densities, and building heights for each of the station areas. The Committee’s input will help inform development of alternative concepts for the corridor, which can help community members explore future possibilities for each station. The two groups provided the following ideas on poster-size aerials:

| Station Area | Group #1 | Group #2 |
|--------------|--|--|
| Kapalama | <ul style="list-style-type: none"> • Develop Research & Development facilities, capitalizing on Honolulu Community College presence. • Develop high-density housing with park and recreation space Diamond Head of Kokea Street and makai of Dillingham. • Develop residential overlooking Kapalama Canal. • Improve industrial uses into high-tech and lab space. Alternatively, convert industrial/warehouse space to live/work lofts. • Improve the canal into a linear park. Ensure safety in new parks through lighting, community association, and surrounding residential uses. • Provide day care at/near the station. | <ul style="list-style-type: none"> • Develop residential units on along and overlooking Kapalama Canal. Improve the canal into a linear greenway. • Develop retail, Ewa of the station, along Dillingham Boulevard. • Allow BMX-3 zoning (commercial and residential mixed-use) and high-tech uses makai of Dillingham Boulevard. (up to 150 feet in height). • Provide community benefits with new development (e.g. child care). |
| Kalihi | <ul style="list-style-type: none"> • Consider two scenarios: retaining or relocating industrial uses. • Increase density in targeted locations to develop rental apartments (up to 10 stories). • Provide a range of housing types for various income levels. • Provide incentives for lot consolidation. | <ul style="list-style-type: none"> • Resolve non-conforming use issues to allow for property improvements. • Create a community hub around Kalihi station (Mokaua Street & Dillingham Boulevard). • Provide roll curbs to improve safety while retaining parking. |

| | | |
|---------------|---|--|
| Middle Street | <ul style="list-style-type: none"> • Emphasize existing recreation uses at Keelii Lagoon Park: cricket, paintball, canoe racing. Improve access with a bridge across Dillingham/rail line. • Negotiate a land swap for Oahu Community Correctional Center land. • Develop senior housing mauka of the station. • Provide mixed use with residential on Dillingham. • Emphasize food vendors. • Relocate transfer station. • Develop alternative energy, establish a farmers' market. | <ul style="list-style-type: none"> • Provide pedestrian access bridges: over Nimitz Highway to Sand Island Access Road, and over H-1—Ewa from Middle Street and mauka to Kalihi Valley. • Acquire properties along Kalihi Stream when widening Bannister Street to expand development possibilities and create better links to the station. • Develop mixed use and housing (including affordable) near bus transfer facility (10-15 stories). • Allow BMX-3 zoning (commercial and residential mixed-use) makai of Dillingham Boulevard (up to 150 feet). • Emphasize public facilities including a satellite City Hall and charter school. • Improve the stream/canal into a greenway. • Improve mauka-makai connectivity with trails and new street connections. |
|---------------|---|--|

Rajeev Bhatia, Dyett & Bhatia
Jeannie Eisberg, Dyett & Bhatia

Bonnie Arakawa, Honolulu Department of Planning & Permitting
Renee Espiau, Honolulu Department of Planning & Permitting
Ray Young, Honolulu Department of Planning & Permitting
Kathy Sokugawa, Honolulu Department of Planning & Permitting

5. Conclusion and Next Steps

Community Workshop #2 and Advisory Committee Meeting #3 will be held in the Fall of 2011

6. Adjournment

Meeting adjourned at 8:00pm.

Meeting Attendees

Nicholas Birck, Hawaii Public Housing Authority
Catherine Camp, Kamehameha Schools
Dennis Galolo, Honolulu Councilmember Romy Cachola's Office
Dean Hamada, CORE Realty
Bridget Holthus, Honolulu Department of Community Services
Dominic Inocelda, Hawaii Interagency Council on Immigrant Services
Roy Ishihara, Marukai Wholesale Mart
Brian Maeshiro, Action Realty Corp./Kalihi Business Association
Sue Sakai, AARP
Russell Tsuji, Hawaii Department of Land & Natural Resources
Wayne Yoshioka, Honolulu Department of Transportation Services

City and County of Honolulu
Kalihi Neighborhood TOD Plan

Advisory Committee Meeting #3

October 27, 2011 • 6-8pm • Fasi Municipal Building, 9th floor

Meeting Objectives

- Recap Existing Conditions Report, Market Study
- Review findings from the Community Needs Survey
- Discuss the results and reactions from Community Workshop #2
- Discuss development density/intensity and building heights and refine the preferred concept

Meeting Summary

1. Welcome

Renee Espiau (City and County of Honolulu) welcomed participants to the meeting and introduced City staff and the consultant team and asked committee members to reintroduce themselves and their affiliation, as appropriate.

2. Overview of Meeting Agenda and Project Timeline and Progress

Rajeev Bhatia (Dyett & Bhatia) reviewed the overall project timeline, progress to date, and work still to come.

3. Review/Recap of Work Completed

Mr. Bhatia summarized the Existing Conditions Report, which included an assessment of potential development opportunity sites. He also described findings from the Market Study that evaluated market demand for a variety of land uses. These reports can be found at the City's website: www.honoluluodpp.org.

4. Community Feedback

Jean Eisberg (Dyett & Bhatia) summarized findings from the Community Needs Survey and Mr. Bhatia invited feedback from Committee members on Community Workshop #2. Many Committee members attended the October 25 workshop and described their impressions as follows:

- Participants provided good feedback and diverse opinions.
- Workshop was great; confirmation that we can move forward.
- Dynamic workshop. Local residents need to come up to speed because the world is changing. Need to bring existing residents into the fold. Cannot be a funky community forever.
- Good process, diverse attendance, but challenging for people to be visionary.

- Older people contributing to this vision will not likely see it realized. We need to consider the people we are planning for.

5. Refine Preferred Concept

A) Concepts and Community Feedback

Mr. Bhatia described the emerging concept for each station. Ms. Eisberg summarized feedback from the community workshop, including opinions on the emerging themes and responses to questions. Committee members provided their feedback for each station concept as follows:

Middle Street Station

Committee members generally did not support major new investment/intensification of uses around this station. However, they do not want the station to become a transit-only hub with no amenities. Some new uses in areas not affected by the floodplain may be appropriate:

- Not every station will be TOD. This is probably a good place for the transit center and park and ride. Probably more expensive to build and insure here due to potential flooding.
- Build relationship with Fort Shafter to have more parking and other facilities in the station area.
- Need to address stormwater problems in the area.
- Let the market determine appropriate land uses.
- Should have something around the station, such as retail or housing, so it is not just commuters getting in their cars or on the bus.
- Short-term parking structure and transfer facility. Long-term may have mixed-use residential and retail.
- Big opportunity is Love's Bakery property, which is currently for sale.
- NIMBY depot. Put anything you want there because no one will complain.
- Don't try to do everything at every station. Park and ride may be okay.

Kalihi Station

Committee members overwhelmingly supported maintaining industrial uses makai of Nimitz Highway and the majority also supported industrial uses continuing between Nimitz Highway and Dillingham Boulevard. Opinions were more mixed about the industrial/residential mixed-use area around Bannister Street and Gulick Avenue:

- Makai of Nimitz, Kalihi-Kai:
 - Maintain as industrial.

- Another Committee member agreed that the area should continue as industrial.
- Between Dillingham and Nimitz:
 - Maintain the industrial uses. Dillingham is a natural boundary between industrial and residential uses.
 - Allow residential.
 - Support leaving as industrial.
 - Makai of Dillingham area is one of the last places that is affordable and has fee simple ownership. Need to maintain small business ownership and light industrial and commercial uses.
 - This area will have “spillover” parking as people park in Kalihi and then get on the train to avoid high parking rates Downtown. Recommend prohibited parking on the street during the day, except for tenants and owners. Need to add sidewalks with roll curbs, so tenants can park and access their properties.
 - As a complement to the “no parking” daytime policy, provide a parking structure
 - Need street cleaning and clean up of abandoned cars. Not supportive of restricting parking.
- Bannister St./Gulick Ave. area:
 - Considering designating as more residential, while still retaining its affordability. Note that streets are private, substandard and in need of repair so redevelopment will be difficult.
- Many of the housing units around this station are in disrepair and non-conforming, but on small fee simple lots, again, making redevelopment challenging.
- Include “what if” scenario in the TOD Plan if OCCC moves.

Kapalama Station

The Committee generally agreed with the concept for this station and discussion was limited:

- Do not require retail along the whole length of the canal or you will end up with vacancies. Retailers may not want to be along the canal because there is not a lot of traffic. Retail center near Colburn is already a commercial center for this community. Residential “eyes on the street” along the canal will ensure that homeless don’t take over.
- There is an opportunity to allow Palama Health Center to combine its separate buildings into a convenient single site.

B) Urban Form Elements

The next phase of the planning process will refine the concept strategy and consider appropriate densities and building heights for future development in the planning area. Mr. Bhatia defined measurements for density and intensity, and showed examples of local building intensities, residential densities, and building heights. Committee members discussed appropriate building heights in the planning area:

- Increase density of housing to accommodate population increase
- 10 stories okay
- Need to protect views.
- Kapalama: Need to increase some height around the Kapalama station area.
- Kalihi Station: Increase to 100 feet.
- Community says they do not want high rise towers. 150 feet may be okay. 15-20 stories around Kalihi and Kapalama. Needs to step down from the station.
- Maintain small business low-scale buildings, often parking standard limitations.
- Differing opinions on height limits around Middle Street station.

Other Comments:

- Roads need to be navigable for businesses and residents. Include left-turn lanes.
- King Street will be busier with vehicles once the rail is operational, because cars will avoid Dillingham. Add residents in the neighborhood and people will walk to both King Street and Dillingham.
- Reach out to Public Housing Authority Board

6. Conclusion and Next Steps

Mr. Bhatia explained the next steps to develop a preferred plan and present it to the community for feedback in January/February 2012.

Meeting Attendees

Nicholas Birck, Hawaii Public Housing Authority
Catherine Camp, Kamehameha Schools
Cardy Fang, Kalihi-Palama Neighborhood Board
Dennis Galolo, Honolulu Councilmember Romy Cachola's Office
Randy Grune, HDOT Harbors Division
Donald Guerrero, Kalihi-Palama Neighborhood Board
Brian Maeshiro, Action Realty Corp./Kalihi Business Association
Samuel Moku, Honolulu Department of Community Services
Jesse Souki, DBED&T Office of Planning

Rajeev Bhatia, Dyett & Bhatia
Jean Eisberg, Dyett & Bhatia

Renee Espiau, Honolulu Department of Planning & Permitting
Curtis Lum, Honolulu Department of Planning & Permitting
Kathy Sokugawa, Honolulu Department of Planning & Permitting
Ray Young, Honolulu Department of Planning & Permitting

City and County of Honolulu Kalihi Neighborhood TOD Plan

Advisory Committee Meeting #4

February 28, 2011 • 6-8pm • Fasi Municipal Building, 9th floor

Meeting Objectives

- Present and solicit input on the Draft TOD Framework Plan
- Discuss and refine policies to implement the community vision and plan

Meeting Summary

1. Welcome

Terrance Ware (City and County of Honolulu) welcomed participants to the meeting and asked committee members to reintroduce themselves.

2. Overview of Meeting Agenda and Project Timeline and Progress to Date

Rajeev Bhatia (Dyett & Bhatia, [D&B]) reviewed the overall project timeline, meetings and progress to date, and work still to come.

3. Draft Framework Plan

Mr. Bhatia and Jean Eisberg (D&B) introduced each of the topics below and invited discussion among committee members. Generally, committee members agreed with the land use and circulation strategy and offered recommendations for how to improve streetscapes and open spaces. Key points are summarized below:

Concept, Land Use and Transportation Strategy/Alternatives, and Potential Impacts

- Kalihi: Committee members agreed that Industrial Mixed Use is the appropriate land use designation makai of the planned Kalihi station.
- Middle Street: Committee members generally support a greater mix of uses, as well as street and building improvements mauka of Middle Street station and in the Bannister Street area. However, they acknowledged that redevelopment will be challenging because of the small parcel size, street widening setback requirements, and individual ownerships. Current land use regulations and conditions of approval often inhibit redevelopment since owners cannot always afford to make the requisite improvements.
- Transportation: Committee members expressed concern about increased volumes on side streets if vehicles are trying to avoid Dillingham Boulevard because of real or perceived traffic due to the rail construction and operation. Traffic calming would help deter such through traffic and keep vehicles low. They were also concerned about increased truck traffic traveling through Kalihi due to Harbor expansion.

Public Realm and Urban Design

- **Park Types:** Committee members generally supported a range of park types, but wanted to ensure that parks are functional, programmed, safe, and appropriate for this urban neighborhood. They should include gathering spaces and opportunities for residential units, restaurants, small retail, and other uses that can provide “eyes on the street.” (The Pearl District in Portland was cited as including good examples of urban public spaces).
- **Park Locations:** Some committee members were concerned about location parks directly adjacent to the rail line and Dillingham Boulevard, considering vehicle speeds, traffic and noise.
- **Promenade & Kohou Street:** Committee members were supportive of the Kapalama Canal/promenade vision, to add a retaining wall to mitigate erosion, develop a pedestrian and bicycle paths, and add landscaping to create a linear open space. But, they disagreed with the proposal to close Kohou Street to vehicle traffic since this would reduce connectivity and convenience access between Dillingham Boulevard and King Street for local traffic and residents of the proposed housing. Committee members were supportive of street designs that would narrow the existing Kohou Street, calm vehicle traffic, and accommodate all modes (i.e., through a woonerf or living street—a shared street, designed to be used by pedestrians, bicyclists, and low-speed motor vehicles).
- **Kalihi Sidewalks/Streetscapes:** Makai of the Kalihi station, committee members wanted to balance the needs of resident/employee parking, vehicle access, and pedestrian safety (as well as bicycle safety and access, especially on Kalani Street where a bike route is proposed). Installing curbs and sidewalks would be cost prohibitive, inhibit parking access, and involve too many curb cuts because of the small lots size. Instead, installing rolled curbs or, in the near term, adding striping along the boundary between the public right-of-way and private property would demarcate public and private space. This would encourage drivers to park within their property boundaries, freeing up right-of-way for pedestrians and bicycles to use and share the street. Any landscaping improvements should be minimal and unobtrusive.

Building Heights and Intensities

- Committee members generally supported the proposed building heights in the framework plan. However, there was some concern that property owners in the fee simple ownership areas around the Kalihi station could be subject to higher property taxes due to the increase in potential value. Maintaining the existing heights in this location was preferred.

Policy Discussion

- Committee members reiterated the importance of enabling “eyes on the street” through the types of uses proposed and creating activity at the building edge and ground-floor by installing active land uses (e.g. retail, cafes) and avoiding blank walls and dark spaces.

4. Conclusion and Next Steps

Bonnie Arakawa (City) explained that one of the next steps is to take input we have received from the Advisory Committee and other stakeholders and present key elements of the TOD Plan at a community workshop and committee meeting in May/June 2012. Committee members provided suggestions for the next workshop:

- Educate community members about how the development process works and how change unfolds over time.
- Avoid overpromising. Caveat that the vision, map, and illustrations are the ideal version of what could be.
- Describe how the plan affects *them*, their kids, grandkids, as residents and business owners.
- Describe what is proposed to change, but also what may stay the same (e.g. small industrial/commercial businesses).

Attendees:

Bonnie Arakawa, DPP
Rajeev Bhatia, Dyett & Bhatia
Catherine Camp, Kamehameha Schools
Jean Eisberg, Dyett & Bhatia
Renee Espiau, DPP
Wes Frystacki, Weslin Consulting
Rodney Funakoshi, DBED&T – Office of Planning
Brian Furuto, Honolulu Community College
Dennis Galolo, Councilmember Cachola
Randy Grune, State DOT – Harbors Division
Curtis Lum, DPP
Brian Maeshiro, Kalihi Business Association
Kathy Sokugawa, DPP
Jiro Sumada, DPP
Terrance Ware, DPP
Ray Young, DPP

Meeting Objectives

- Present and discuss changes in the Draft Final Kalihi TOD Plan since publication of the Public Review Draft in 2012
- Make sure the Plan still represents the goals and visions of major community stakeholders

Meeting Summary

1. Welcome

Renee Espiau and Harrison Rue (City and County of Honolulu) welcomed participants to the meeting and asked committee members and City staff to introduce themselves.

2. Overview of Meeting Purpose and the Kalihi TOD Plan

Renee Espiau explained the purpose of the meeting and explained the handouts: a summary brochure of the Plan and a table detailing the comments received on the Public Review Draft and the City's response to each comment. Renee then provided a brief overview of the Kalihi TOD Plan, including the vision for each station area and the various topics (land use, transportation, and open space) addressed in the document.

3. Summary of Key Plan Changes (November 2014)

The group then walked through the table of comments and Plan changes and discussed the more substantive changes in detail.

- Kalihi station area: A Plan comment was received suggesting that the Kalihi station area should be zoned for urban mixed use, not industrial mixed use. The Advisory Committee supported the City's decision to keep the area more industrial in nature. It was noted that the City may allow limited residential uses in industrial mixed-use areas and plans to relax nonconformity regulations to encourage property upkeep and investment. Following this discussion, one Advisory Committee member commented that residential uses are not appropriate in industrial areas and should not be allowed to remain.
- Streets/parking in Kalihi station area: A Committee member reiterated support for the Living Street Zones recommendation in the Plan to use striping and paint to clearly demarcate area for parking, walking/biking, and vehicular traffic. Many of these streets are privately owned so the City will need to work with the owners to implement any strategy.
- Heights along Kapalama Canal: In response to comments by Kamehameha Schools, the proposed maximum height limit along Kapalama Canal has been increased from 150' to 200' to better match existing zoning along King Street and encourage high densities near the station.
- Land use near Middle Street station: Advisory Committee members seemed to support the change of the First Hawaiian Bank-owned lands from industrial mixed use to urban mixed use – medium in the Plan. First Hawaiian Bank (FHB) is looking at redevelopment options but wants to make sure their existing processing center will be compatible with new zoning. A Committee member also noted that many FHB employees in that area are health conscious and would like to

be able to access trails and open space like Keehi Lagoon Park. The majority of employees are women who may not feel safe given current conditions around the Middle Street/Nimitz Highway/H1 interchange.

- Former paintball park site: A question arose as to the future plans for the State owned parcel fronting Keehi Lagoon that used to host a paintball park. The Plan recommends park space for this site. The City will follow up with Senator Chun-Oakland on the State's plans.
- Open space, affordable housing and front yard requirements: The City explained that it is concurrently developing strategies for implementing these regulations throughout rail corridor, so the specific recommendations have been removed from the Plan so they do not conflict with such policies.
- Historic structures: Kamehameha Schools expressed concern with historic preservation regulations that seek to protect buildings over 50 years old that do not have historic or cultural significance.
- School impacts: A Committee member asked about the impact of rail construction and operations on Kalihi Kai Elementary (noise, pollution, etc.). HART will follow up on her concerns.
- Fort Shafter: A committee member asked about the Army's plans at Fort Shafter near the Middle Street station. The City has met with the Army, but they did not express much interest at the time, except for intermodal facilities to connect their staff and families to the rail station.
- Station layouts: The most updated rail station layouts for all three Kalihi rail stations were discussed, including how passengers would access the platforms.
- Middle Street design guidance: The City explained that the Public Review Draft did not recommend pedestrian-oriented building design in the Middle Street station area. Given interest in potential redevelopment in the area, the Plan has been amended to require buildings located next to the sidewalk and parking lots behind buildings along Kamehameha Highway and Middle Street.
- Shadow studies: A committee member asked if HART had conducted shadow studies of Dillingham Boulevard under/near the rail guideway. This information should be in the rail project FBIS and may be helpful in determining appropriate front yard and building frontage requirements.
- Green/living walls: A Committee member noted that they have been experimenting with green/living walls in other areas. It was noted that this strategy for avoiding blank walls has been added to the Plan. A question arose as to why the green/living wall at the Middle Street Transit Center has been removed.

4. Conclusion and Next Steps

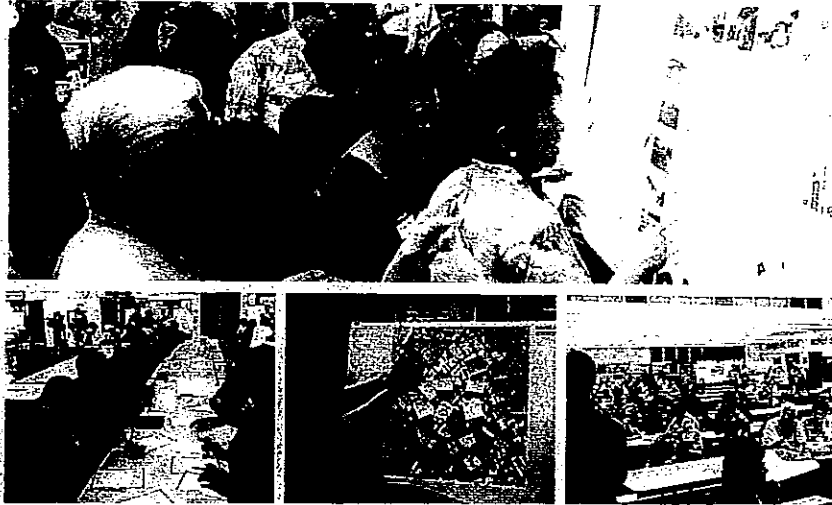
City staff then explained the next steps in the process, including taking the Plan to the Planning Commission and City Council for formal adoption and then proposing zoning to implement the land use vision of the Plan. It was requested that Advisory Committee members provide testimony to support the vision and recommendations laid out in the Kalihi TOD Plan since it is truly a product of the community's active participation over the last four years.

Attendees:

Bonnie Arakawa, DPP
 Catherine Camp, Kamehameha Schools
 Renee Espiau, DPP
 Ronald Higashi, Susannah Wesley Community Ctr
 Brian Maeshiro, Kalihi Business Association
 Joey Manahan, Honolulu City Council
 Aki Marceau, HART

Camille Masutomi, Department of Education
 Jerry Matsunaka, First Hawaiian Bank
 Rev. Bob Nakata, FACE Hawaii
 Harrison Rue, DPP
 Ray Young, DPP
 Kathy Sokugawa, DPP

Exhibit 3



Kalihi Neighborhood Transit-Oriented Development Plan Community Workshop #1 June 27, 2011 Summary Report

Prepared by

DYETT & BHATIA
Urban and Regional Planners

July 2011



1 Introduction

This report describes the results of a community workshop on the Kalihi Neighborhood Transit-Oriented Development (TOD) Plan held on June 27, 2011. The workshop was designed to engage a broad spectrum of community members and provide opportunities for discussion of and input into the community's vision for TOD in the Kalihi neighborhood.

This report compiles the responses from the community workshop to serve as a tool in future stages of the planning process. This introductory chapter provides an overview of the project. Chapter 2 describes the format of the workshop, and Chapter 3 synthesizes the results. Finally, a set of appendices provides a record of the materials provided to participants and feedback received during the event.



PROJECT BACKGROUND

Honolulu High-Capacity Transit Corridor

The U.S. Department of Transportation Federal Transit Administration and the City and County of Honolulu are undertaking a project that will provide rail transit service on Oahu. The Honolulu High-Capacity Transit Corridor is approximately 20 miles and will run from East Kapolei in the west to Ala Moana Center in the east, with subsequent phases to Kapolei, the University of Hawaii at Manoa, and Waikiki. The fixed guideway system will operate in an exclusive right-of-way to ensure speed and reliability and avoid conflicts with vehicles and pedestrians. The service will connect employment and residential centers and provide access via feeder buses at stations to areas not served by rail. Overall goals of the project are to improve corridor mobility and reliability, access to existing and planned development, and transportation equity.

Kalihi Neighborhood TOD Plan

The City is preparing neighborhood plans that integrate land use and transportation planning around the rail stations in anticipation of the rail project. Closer integration of transportation and land use will help support transit ridership, minimize traffic congestion as more people use

transit, decrease the need for parking and even car ownership, and enable more people to live and/or work close to a rail station. The hope is that community members will be able to walk to the station to get to their job or school, or shop or recreate more easily using the new rail system. The Kalihi TOD Plan will address land use, local transportation, and economic, and infrastructure planning around three planned stations: Kapalama, Kalihi, and Middle Street. The TOD Plan can help to holistically plan for orderly growth in these areas.

COMMUNITY PARTICIPATION

Throughout the planning process, community members will be offered a variety of opportunities to help develop a vision and plan for these station areas that reflect the community's most important values and priorities. Outreach activities include stakeholder interviews, community workshops (the subject of this report), a community needs assessment survey, an advisory committee, and ongoing updates to the City's project webpage.

PROJECT SCHEDULE AND PHASES

This project is organized into five phases, as shown in the graphic schedule below. Community outreach activities are an integral part of the process, with workshops and advisory committee meetings held in each phase. The Existing Conditions work has recently been completed, providing a foundation for the rest of the process. Development of a project vision and set of planning principles is in progress, synthesizing concepts and objectives expressed during community outreach activities to provide a framework for plan and policy development.



Next, the planning team will prepare alternatives, analyzing future land use and development possibilities, and share preliminary ideas and possibilities with community members in the fall of 2011. Based on feedback on the alternatives, a Preferred TOD Plan will be prepared, outlining the preferred neighborhood character for each station area, including the vision, land uses, circulation, and key characteristics. Finally, the Kalihi Neighborhood TOD Plan will be prepared, providing a land use and circulation plan; goals and policies for the station areas; implementation actions and zoning recommendations; and a conceptual phasing plan.

2 Workshop Structure

The project's first community workshop was held on Monday, June 27, 2011, at Kalakaua Middle School. More than 80 community members participated.

OBJECTIVES

The purpose of this first workshop was to give interested members of the public an opportunity to brainstorm about their visions for the future of Kalihi and how the introduction of rail can benefit the areas around the Kalihi stations. The workshop agenda articulated the following objectives: introduce the project and planning process; describe the concept and qualities of TOD; and brainstorm issues and visions for the Kalihi Neighborhood TOD Plan area.

FORMAT

The workshop agenda is provided in Appendix A. As participants arrived and registered, they were asked to orient themselves to the Planning Area by placing sticker dots on a large map depicting where they live or work in or near the corridor.

City staff and consultants presented information about the project, planning process, and format of the workshop. The workshop presentation is provided in Appendix B.

The workshop was divided into two main exercises:

- **Exercise #1: Visions of TOD** – Participants were asked to assume the role of a reporter writing a cover story on the impact of TOD in Kalihi in the year 2030 and use words and/or illustrations to create a headline. First, participants developed and shared their individual headlines. Next, they worked together in groups of 10-12 persons to develop a collective group headline to share with the workshop at-large. These headlines are summarized in Chapter 3 and provided in Appendix C.
- **Exercise #2: Community Mapping** – Participants were asked to respond to the following questions by placing post-it notes with their comments on large poster-sized maps of each station area:
 - What do you like most about living, working, or spending time in Kalihi?
 - What specifically can be improved to make the station areas more transit-oriented and livable?

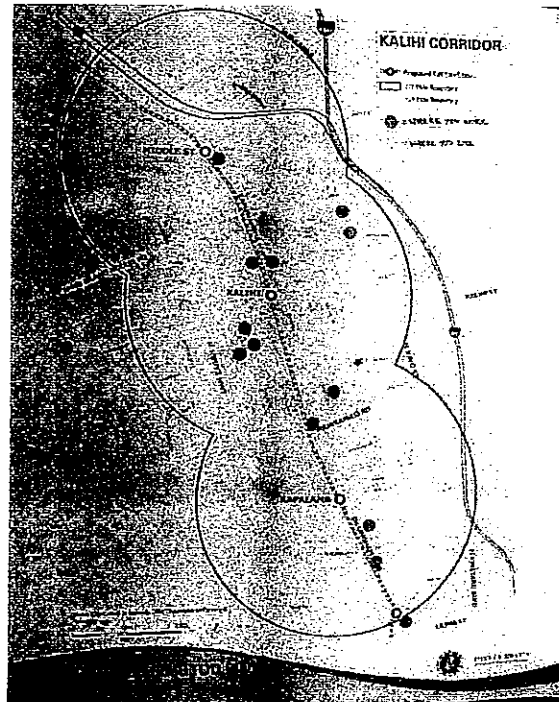
Results of both of these exercises are summarized in Chapter 3 of this report.

3 Workshop Results

This chapter summarizes feedback from the workshop participants, including the orientation, visioning, and community mapping exercises.

ORIENTING PARTICIPANTS TO THE PLANNING AREA

To orient themselves to the Planning Area, participants placed dots on a map of Kalihi depicting where they live or work (yellow or blue dots, respectively). Of those participants who took part in this activity, about twice as many participants reported that they work in the planning area compared with those who live in the area. Most participants stated that they live or work near the planned Kalihi station.

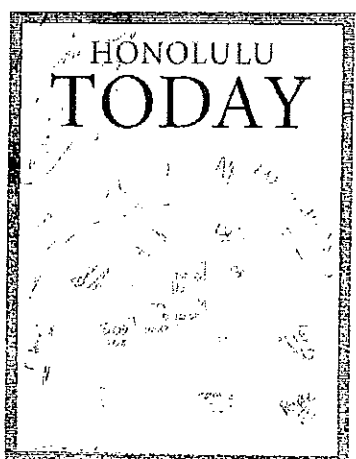
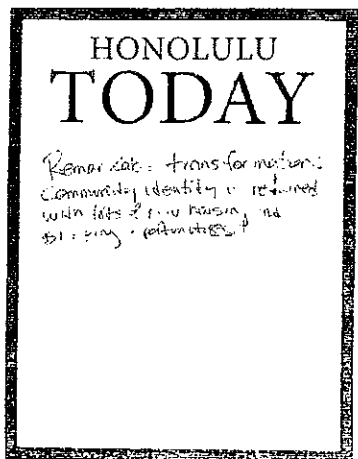
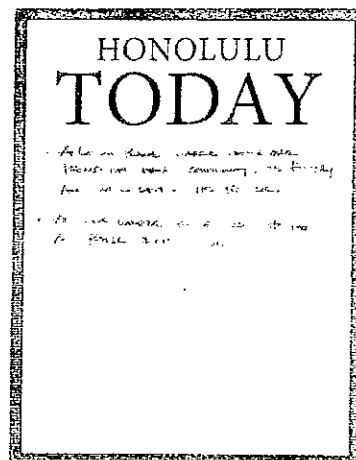
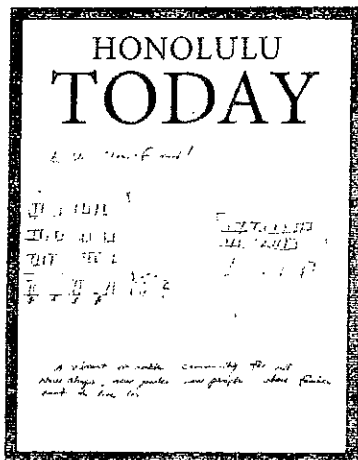


EXERCISE #1: VISIONS OF TOD

Participants shared their visions for the future of the planning area by creating mock magazine headlines. Individual headlines are documented in Appendix C and a few examples are shown on the following page. Each table of 10-12 participants worked together to develop a group headline:

- Kalihi Beautification on Track with High Density Walkable Neighborhoods: Rail System Finally Finished
- TOD Brings New Life to Kalihi with New Shops, Upgraded Neighborhoods, and a Healthy Affordable Living Environment
- Homelessness Has Been Solved Permanently: No Homeless around Stations. Small local businesses still thrive. Affordable housing inventory is growing. Aldora's great-grandchildren can still afford to live here.
- Improved Communities: Development of Business; Apartments; Neighborhood Clean-Up; More Housing.
- Back to the Future! 1950s, 1930s. 60-70s too auto oriented, redo parking supply, more/better sidewalks, strengthen businesses, apartments/housing, revive Kalihi – clean it up.
- Traffic fixed by rail. Safer neighborhoods. Security unsolved around station. Questions cost/taxes in 2030. People priority. Light industry grows, community development.
- Kalihi: Revitalize & Preserve





EXERCISE #2: COMMUNITY MAPPING

During this activity, participants described things they like or elements that they would like to change or improve around each station. The following set of bullets summarizes overall comments (made about two or more stations):

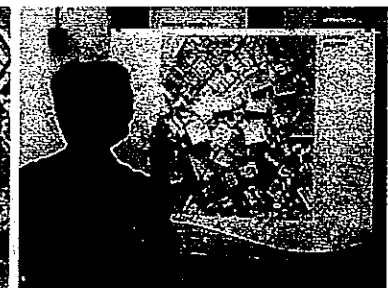
Overall

- Improve pedestrian safety and walkability: add sidewalks, repair streets, and improve street lighting.
- Improve quality of life: Retain Kalihi's sense of community, Hawaiian culture, family-orientation, and diversity. Abate graffiti, find solutions for homeless population.
- Improve access to the station: Provide parking structures, bicycle parking and sharing, and reduce traffic congestion.

The following summarizes comments for each station area:

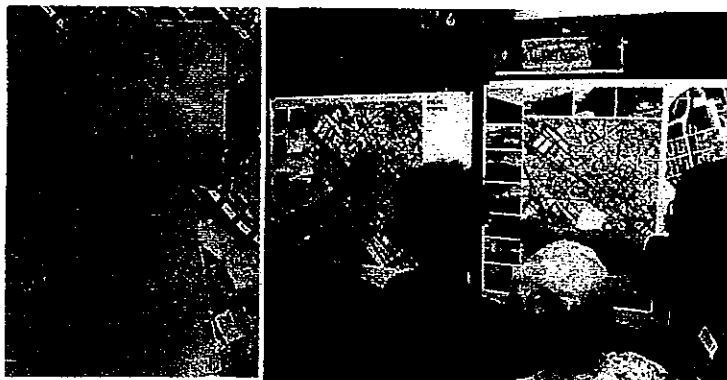
Kapalama Station Area

- Expand green space, including a linear public park along Kapalama Canal.
- Provide new uses: retail, shopping, restaurants, and multi-family and affordable housing. Redevelop big box stores into more transit-friendly uses.



Kalihi Station Area

- Enhance the existing community with more residential, retail, and restaurants. Rehabilitate housing that is in disrepair.
- Relocate Oahu Community Correctional Center.
- Emphasize K-12 education facilities.
- Relocate transit routes to improve access to key destinations (e.g. YMCA, health care).



Middle Street Station Area

- Maintain and enhance pedestrian and bike connections between the Middle Street Station and Ke'ehi Lagoon Park.
- Emphasize connectivity to the rest of Oahu from this bus/rail transfer station.
- Coordinate with long-term plans for Fort Shafter.
- Expand land use options: residential, services, child care, alternative energy.



Appendix A: Workshop Agenda

City and County of Honolulu
 Kalihi Neighborhood TOD Plan
 Community Workshop #1
 Monday, June 27, 2011, 6-8pm
 Kalakaua Middle School Cafeteria
 821 Kalihi Street, Honolulu, HI, 96819

Objectives

- Introduce the project and planning process
- Educate community members about transit-oriented development (TOD)
- Brainstorm issues and vision for the Neighborhood TOD area

Agenda

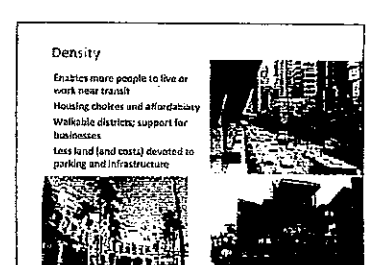
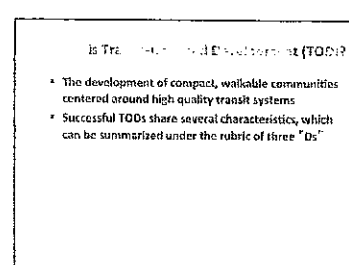
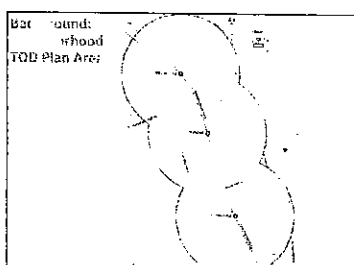
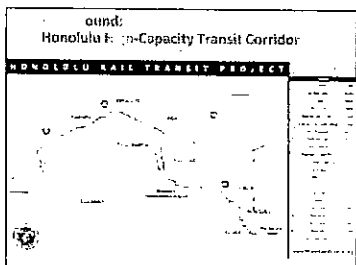
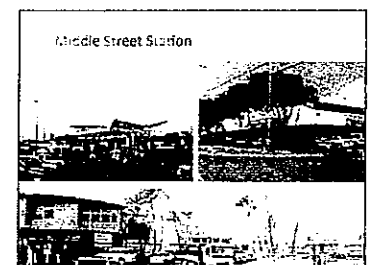
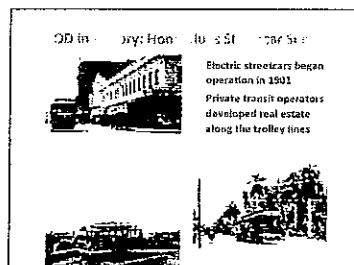
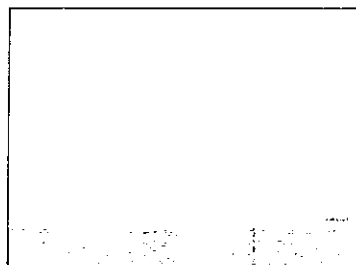
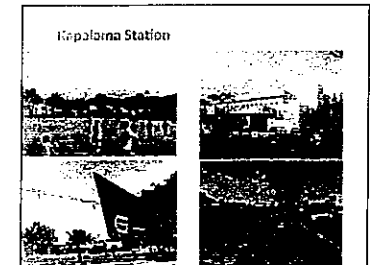
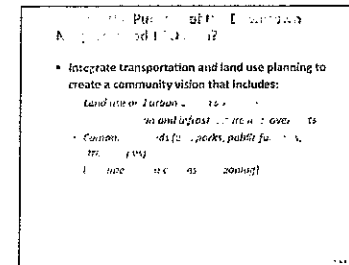
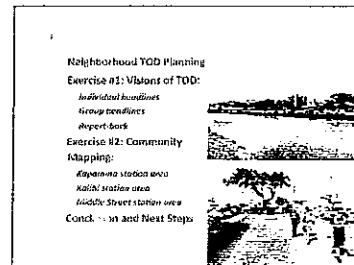
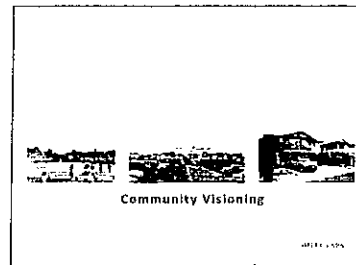
Sign-in and Registration: identify where you live or work in the planning area.

1. Welcome (Renee Espino)
2. Neighborhood TOD Planning (D&B)
3. Exercise #1: Visions of TOD
 - Develop and share individual headlines
 - Develop and share group headline
4. Exercise #2: Community Mapping (D&B: staff)
 - Self-paced, 40 minutes
 - What do you like most about living, working, or spending time in Kalihi?
 - What specifically can be improved to make the station areas more transit-oriented and livable?
 - Debrief by facilitators
5. Conclusion and Next Steps (Renee)

Please fill out and return a survey!



Appendix B: Presentation



Diversity

Mix of uses in corridor

- Walk to shops, services, and recreation
- Active and safe streets
- Shared parking opportunities

Diversity of housing, businesses, incomes

50' pedestrian and bike access

Small blocks and connected streets

Frequent crossings

Active uses at the ground level

How Can TOD Benefit Me?

- Easier and safer to get around on foot, bicycle or transit
- Healthier lifestyle, more walking
- No need to buy a second car
- Convenient shops, parks and community facilities
- Reduced pollution and environmental impacts
- Housing options
- Savings on housing and transportation costs

50'

Community Open

Public Participation Program

- Stakeholder Meetings
- Advisory Committee Meetings
- Community Workshops
- Community Needs Survey
- Project Website

Exercise: Editors of TOD

- Imagine you are a reporter writing a cover story on the impact of TOD in Kailahi in the year 2030
- 4 or 5 minutes to write headline
- 8 minutes to share with the group
- 20 minutes to work on group headline

Use the post-it notes and pens provided to share your thoughts for each station.

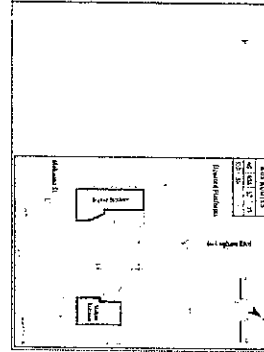
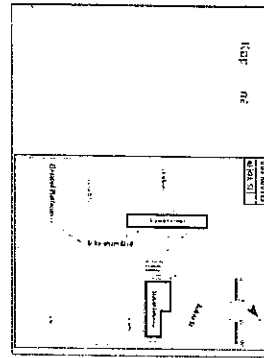
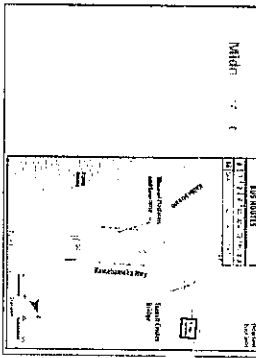
Stationing: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

When you see something that you like, please be prepared to make the stationing number and the stationing number.

100 200 300 400 500 600 700 800 900 1000

- Please complete a Community Survey
- Visit the project website for updates: www.hawaii.gov/transportation/
- Attend the next Community Workshop (Feb 2013)

Community Visioning



SIGN-IN SHEET
KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP #1
JUNE 27, 2011

Please Print Clearly

| Name | Affiliation | Address | Email | Phone |
|-------------------|-----------------------------|---|--------------------------------|--------------|
| Mark Munner | Private Citizen | 729-B Kamehameha St. Apt. 111 96817 | mmunner@hawaii.edu | 808-937-6577 |
| BRIAN MRESATURO | KBA | P.O. BOX 4525 KOLAKU | action@brianmresaturo.com | 808-1444 |
| MATTHEW GONZALEZ | UH Sea Grant | | wjgonzalez@gmail.com | 808-952-9872 |
| HENRY TAKARA | | 1155 PHOENIX ST | HENRY.TAKARA@UH.HI | 808-945-8477 |
| Steve Silva | | 1917 Kamehameha ST | | 808-945-5371 |
| Gail Jennings | Private Citizen | 7085 KALANANULANI AVE | gail@collinsjennings.com | 721-1154 |
| VINCENT SHIGEKUNI | PBR HAWAII | 1001 BIRCH ST, SUITE 650 HONOLULU 96815 | vshigekuni@pbrihawaii.com | 521-5631 |
| Pet Jones | KBA | 1545 Ala Mahanui | | 834-5914 |
| SUZANNE King | Honolulu Board of REALTORS | 1196 12th Ave #200 HONOLULU 96816 | suzanne.king@centralhawaii.com | 808-271-7834 |
| Dorethy Sorayama | Private citizen | 733 Kamehameha St | | 427-0249 |
| Kyle Doud | Councilmember Romy Cacchola | City Council, Honolulu Hale | kdoud@hawaii.gov | 768-5029 |
| Winnie Mokias | KBA | 2093 Dillingham Blvd. | wmokia@bbh.org | 895-9966 |
| JO PAUL ROGNETAO | AIA | 1750 KALANANULANI AVE | JOEPAUL.R@AIA.COM | 965-0677 |
| David Von Hamm | Private | 250 KALANANULANI PL 96816 | | 361-5025 |
| GEORGE MIASNIK | MVE PACIFIC, INC | | gmiasnik@mve-pacific.com | 673-0771 |
| Rene Matsumura | Group TO | 925 Bethel St. 5th floor HON. 96813 | rmatsumura@groupthink.com | 523-5864 |
| ELIZABETH LEE | Private | 2407 Loomis St. HON. HI 96822 | elizabeth.lee@hawaii.com | 464-4444 |
| ARON RUINO | Private | " | | |
| MIKE TAYLOR | BANK OF HAWAII | 170 Merchant St | michael.taylor@boh.com | 694-8022 |
| TOM FEE | HHP Planners | 743 Bishop St Ste 7540 | t.fee@hnp.com | 545-2855 |

SIGN-IN SHEET
KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP #1
JUNE 27, 2011

Please Print Clearly

| Name | Affiliation | Address | Email | Phone |
|--------------------------|--------------------------|-------------------------|-----------------------------|----------|
| RON JONES | KBR | P.O. Box 15923 96817 | Ronjones@hawaii.rr.com | 375-5178 |
| Tammy R Young | CFER (Res in Kalihi) | 2343 Kula Kula Dr 96819 | tammyr@hawaii.rr.com | 271-7833 |
| Theresa Josiah | Res in Kalihi | 1233 Kahuahu St 96819 | | 688-7234 |
| Carole Kaapu | Resident | P.O. Box 30283 96820 | carole.kaapu@gmail.com | 841-7050 |
| LOUI SITIHARTANA | BUSINESS IN DISTRICT | 2310 Kahuahu | | 845-5053 |
| Ken Kato | Hon CC | 874 Dillingham 96817 | kenkato@hawaii.rr.com | 845-9123 |
| MICHAEL STREET | PRK CONSULTING | | mstreet@bowersandkubota.com | |
| Alex B. Vena | RCK Partners | 1287 Kalamia St. 96817 | abueno@msn.com | 843-0095 |
| Irene & Roy Yoneji | Resident | 1810 Ahuula 96819 | yoneji@hawaii.rr.com | 845-8897 |
| Mrs Mrs Gilbert Fujimori | | 1455 Avenue PL 96734 | | |
| Ken Dwight Woolfart | Woolf Industries | 616 Poole Rd | | 833-4059 |
| Alan Fujimori | Belt Collins | 521 N. King St #200 | afujimori@beltcollins.com | 225-2087 |
| TOMMY TRUNG | | 1485 E. Kalia Rd #217 | | 255-5461 |
| CARLOS ZAPATA | RESIDENT | 1732 KALANI ST. | | 489-5664 |
| Andrew Ma | Resident | 921 Kalamia Pl. | | 847-1511 |
| WES FRYSTACK | WESLIN | 1551 ALA WAI #3502 | | |
| KAROL PATTERSON | HART | | KPATTERSON@hawaii.gov | |
| LARRY L ANDERSON | | 4349 LAKESIDE | | 383-4381 |
| Connie Mitchell | THS | 546 Kaaahu St. | ConnieM@hawaii.rr.com | 447-2624 |
| Robert K. K. K. | Kalihi Police Department | 1428 Kahuahu | | 542-3167 |

SIGN-IN SHEET
KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP #1
JUNE 27, 2011

Please Print Clearly

| Name | Affiliation | Address | Email | Phone |
|------------------|-------------------------------|---------------------------------|------------------------------|----------|
| ALBERT KAWA | ONE STOP SERVICES | 915 WAIKANAHI RD | ak@onestop.org | 841-7413 |
| KEN MASUMI | FMS CORP | 512 KALANI ST | kenmasumi@hawaii.rr.com | 356-2486 |
| Cynthia Gulina | Hawaii Federal Credit Union | 1814 Kaunani St | cguilina@hawaii.rr.com | 441-4201 |
| Eric Kobayashi | Servco Pacific Inc. | 2850 Pukoloa St #300 | evick@servco.com | 966-1929 |
| Susan Wessing | | 1711 Day Pl | ssumia@hotmail.com | 718-5061 |
| Gerco P. P. P. | GERCO P. P. P. | 2731 KAPOLANI | gerco.p.p.p@hawaii.rr.com | 718-5061 |
| Maui Doring | Parsons Transportation | | doring@parsons.com | |
| Darin Skigeta | BOH | 1441 Kapiolani Blvd 96814 | darin.skigeta@boh.com | 694-6158 |
| Ming Lee Kiang | Office of Planning | 235 S. King St. 96811 | minglee@hawaii.rr.com | |
| Michael Lowe | CIVILCAT.COM | 3465 WAIALAE AVE 96816 | mlowe@civillcat.com | 377-0244 |
| APPROJ LUN | BUSINESS | 921 KAAMOHU PL | alan1967@gmail.com | |
| ALAN LOUIE | STUDENT - SUSTAINABLE | P.O. Box 70443 Kapiolani | louie@hawaii.rr.com | 585-1818 |
| ANA C. HASSEKAWA | STUDENT - SUSTAINABLE | P.O. Box 1254 - Haleiwa 96721 | ana412@gmail.com | |
| AARON JOHANSON | ARCHITECT | State Capitol, Rm 328 | ajohanson@capitol.hawaii.gov | |
| Michael Watan | State of HI | | | |
| PAT LEE | Honolulu Rail Transit Project | | patlee@hawaii.rr.com | |
| Wright Kuy | Port of Honolulu Rm 14 | 1405 No. Hwy #200 Kahuahu 96817 | | 847-6531 |

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Kalihi

Neighborhood Transit-Oriented Development Plan

Community Workshop #2

October 25, 2011
Summary Report

Prepared by

DYETT & BHATIA
Urban and Regional Planners

November 2011



1 Introduction

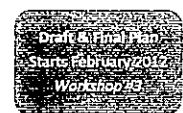
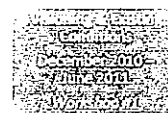
This report describes the results of the second community workshop on the Kalihi Neighborhood Transit-Oriented Development (TOD) Plan, held on October 25, 2011. The workshop was designed to engage a broad spectrum of community members and provide opportunities for discussion of and input into the emerging concepts for TOD in the Kalihi neighborhood.

Community workshops are a key component of the public participation program for the Kalihi TOD Plan process, and this report summarizes this important outreach event. The introductory chapter provides an overview of the project, and Chapter 2 describes the format of the workshop and synthesizes the results.



PROJECT SCHEDULE AND PHASES

This project is organized into five phases, as shown in the graphic schedule below. Community outreach activities are an integral part of the process, with workshops and advisory committee meetings held throughout the planning process. The Visioning & Existing Conditions phase included community outreach and technical analyses that resulted in development of an overall vision and set of planning principles, as well as an Emerging Vision and Concept for each sta-



tion area, which were reviewed during this second community workshop. (Note that this phase was conducted instead of an analysis of distinct alternatives since community members expressed substantial consensus toward an emerging vision.)

Based on feedback herein, a Preferred TOD Plan will be prepared, outlining the preferred neighborhood character for each station area, including the vision, land uses, circulation, and key characteristics. Following further stakeholder feedback on the Preferred Plan and any still unresolved issues, the Draft Kalihi Neighborhood TOD Plan will be prepared, providing a land use and circulation plan; goals and policies for the station areas; implementation actions and zoning recommendations; and a conceptual phasing plan.

2 Workshop Structure and Results

The project's second community workshop was held on Tuesday, October 25, 2011, at Farrington High School. More than 60 community members participated.

OBJECTIVES

The purpose of this workshop was to present the Emerging Concepts for the Kalihi TOD Plan and progress on the project, including results from the community needs assessment, market study, and existing conditions analysis. Attendees were asked to confirm objectives and ideas generated to date through the community outreach process and to provide feedback on the emerging vision and concepts to help identify a preferred plan direction.

FORMAT

City staff and consultants first presented information about the project, planning process, progress to date, and format of the workshop. This information is provided in Appendix A. Next, participants worked in small groups, reviewing the Emerging Concept for each station. These concepts synthesized issues and opportunities identified during technical studies and community outreach for each station. Participants discussed whether they agreed or disagreed with the emerging consensus and answered a series of questions about unresolved issues.

KEY FINDINGS

According to small group discussions, participants generally supported the emerging consensus for each station, including a multi-modal transportation hub at Middle Street, targeted improvements around the Kalihi station, and a new mixed-use district around the Kapalama station taking advantage of the nearby presence of Honolulu Community College. Specific findings by each station area follow.



Middle Street Station Area

Participants supported the emerging vision of Middle Street station as a major multi-modal hub. However, they expressed mixed opinions about whether to encourage new uses in the area, as the area is predominately in a flood hazard district and surrounded by state highways. Participants' conversations focused on the following components of the vision:

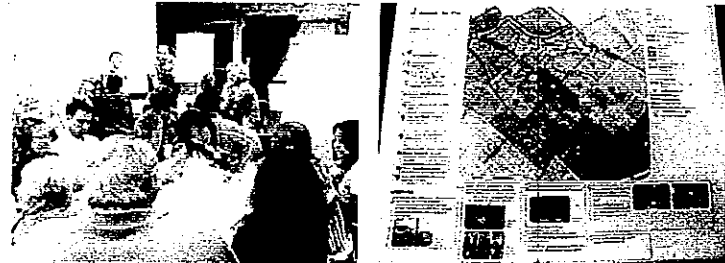
- **Maintain Industrial/Warehouse Uses:** Participants generally supported maintaining the industrial and warehouse uses around the station, especially those dependent on the harbor and airport. Still, there was some support for new low-intensity uses, such as transitional and affordable housing and commercial development, particularly mauka of Dillingham Boulevard and outside the floodplain area.
- **Expand Recreation and Open Space Opportunities:** Participants supported improved connections to nearby recreational uses, including Keehi Lagoon Park, the adjacent peninsula (currently occupied by a paintball park), and Sand Island Recreation Area. Available land, including land with potential flooding constraints, would be appropriate for open space development.



Kalihi Station Area

Participants agreed with the emerging vision for the Kalihi station area—revitalize the community by allowing some higher-density residential development and continuing to support small businesses. Participants' conversations focused on the following components of the emerging vision:

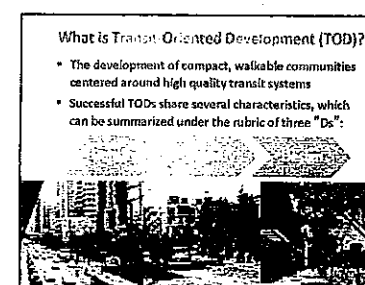
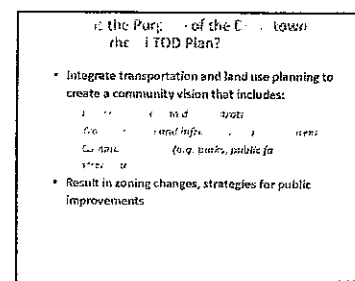
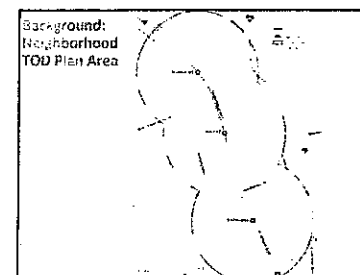
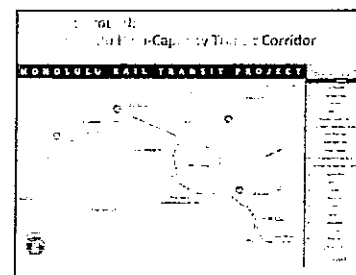
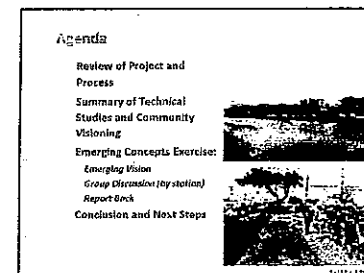
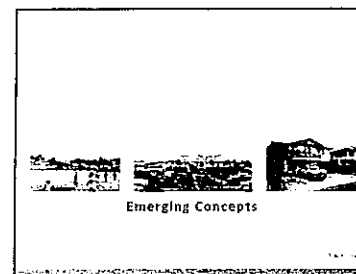
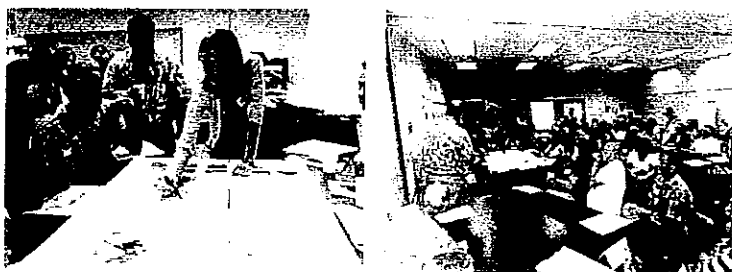
- **Provide New and Improved Residential Units:** Participants confirmed that the residential area mauka of Dillingham Boulevard could benefit from home improvements and code compliance, as well as higher density residential development in targeted locations.
- **Balance Residential and Industrial/Commercial Uses:** Participants expressed mixed opinions about two areas that are currently a patchwork of industrial, commercial, and residential uses: the Bannister/Gulick area between the Kalihi and Middle Street stations and the area between Dillingham and Nimitz. There seemed to be support for allowing these areas to continue as they are or with a more industrial character. Participants agreed that the Kalihi-Kai area, makai of Nimitz, should remain industrial.
- **Relocate OCCC in the Long-Term:** Participants supported relocation of Oahu Community Correctional Center and redevelopment of the site into uses that are more compatible with the nearby residential community and Puuhale Elementary School, including parks/open space, new residences, and community services (e.g. medical care).



Kapalama Station Area


Participants supported the emerging vision for the Kapalama station area to transition into a high-intensity mixed-use district. Participants' conversations focused on the following components of the vision:

- **A New Mixed-Use District and Education Hub:** Participants agreed with the vision to provide new residential units along the canal and throughout the district, office and research and development centers that capitalize on student talent from Honolulu Community College, and retail, restaurants and entertainment uses that help to create vibrant nightlife. At the same time, participants want to see some light industrial uses retained.
- **Kapalama Canal Improvements and Public Open Space:** Participants expressed clear support for a promenade along Kapalama Canal that would provide opportunities for passive and active enjoyment, and a safe walking path during the day and evening. In addition, participants agreed that new parks and open spaces must be included with new development to ensure that existing and new residents have access to open space and the waterfront. Open spaces could be in the form of community gardens and rooftop spaces, in addition to traditional parks.
- **Uncertain Future for Big Boxes:** Participants expressed mixed opinions about the future of the big box uses. Some groups thought they should relocate (e.g. closer to Nimitz), other groups thought they should be redeveloped at higher intensities and with residential uses, while other groups thought they should be replaced with employment uses or remain as they are in their current locations.



Demographics & Employment

- 34,900 residents (within one-mile radius of stations)
- 3.63 average household size (vs. 2.78 on Oahu)
- \$41,700 median income (40% lower than citywide)
- 85% of jobs in: services, industrial, retail, and transportation/utilities



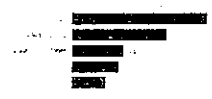
Market Conditions

- Decline in construction
- Slight decline in home values
- Pent up demand for rental units
- Long-term outlook positive

- ~4,000 new units
- Low- and mid-rise buildings
- TOD increases "capture ratio" (share of Honolulu's total housing stock)
- Potential around Kapalama Station

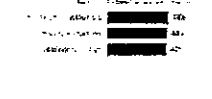
Proximity to Park/Transit Station #1

about 1/2 mile



| Category | Percentage |
|-----------------|------------|
| Within 1/2 mile | 100% |
| 1/2 to 1 mile | ~85% |
| 1 to 1.5 miles | ~75% |
| 1.5 to 2 miles | ~65% |
| 2 to 3 miles | ~55% |
| 3 to 4 miles | ~45% |
| 4 to 5 miles | ~35% |
| 5 to 6 miles | ~25% |
| 6 to 7 miles | ~15% |
| 7 to 8 miles | ~10% |
| 8 to 9 miles | ~5% |
| 9 to 10 miles | ~5% |


But... Noise, Housing Costs, and Safety are Concerns




| Category | Percentage |
|-----------------|------------|
| Within 1/2 mile | 100% |
| 1/2 to 1 mile | ~85% |
| 1 to 1.5 miles | ~75% |
| 1.5 to 2 miles | ~65% |
| 2 to 3 miles | ~55% |
| 3 to 4 miles | ~45% |
| 4 to 5 miles | ~35% |
| 5 to 6 miles | ~25% |
| 6 to 7 miles | ~15% |
| 7 to 8 miles | ~10% |
| 8 to 9 miles | ~5% |
| 9 to 10 miles | ~5% |

Other

- Retail: ± 465,000 sq. ft.
- Office: ± 575,000 sq. ft. (1,600 jobs)

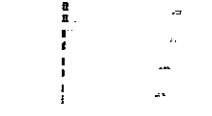


Community Workshop #1




Public Transportation

- Existing parks are well used: 94% use them more than once per month
- But, quality and safety rated poorly



| Category | Percentage |
|-----------------|------------|
| Within 1/2 mile | 100% |
| 1/2 to 1 mile | ~85% |
| 1 to 1.5 miles | ~75% |
| 1.5 to 2 miles | ~65% |
| 2 to 3 miles | ~55% |
| 3 to 4 miles | ~45% |
| 4 to 5 miles | ~35% |
| 5 to 6 miles | ~25% |
| 6 to 7 miles | ~15% |
| 7 to 8 miles | ~10% |
| 8 to 9 miles | ~5% |
| 9 to 10 miles | ~5% |

and Bicycle & Pedestrian Facilities



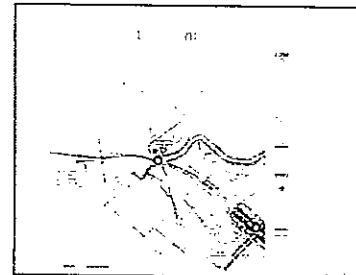
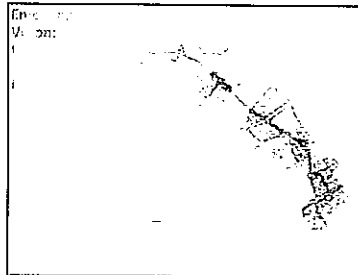
| Category | Percentage |
|-----------------|------------|
| Within 1/2 mile | 100% |
| 1/2 to 1 mile | ~85% |
| 1 to 1.5 miles | ~75% |
| 1.5 to 2 miles | ~65% |
| 2 to 3 miles | ~55% |
| 3 to 4 miles | ~45% |
| 4 to 5 miles | ~35% |
| 5 to 6 miles | ~25% |
| 6 to 7 miles | ~15% |
| 7 to 8 miles | ~10% |
| 8 to 9 miles | ~5% |
| 9 to 10 miles | ~5% |

Visiting Group "I. J. J."

1. Kailua Station on Track with 1/2 mile vicinity (Kailua Station) - Rail Station - Justified
2. TOD brings New Life to Kailua with New Shops, Upgraded Neighborhood, and a Healthy Affordable Living Environment
3. Homelessness Has Been solved Permanently Around Station. Small local businesses still thrive.
4. Improved Communities: Development of Business Apartments/Neighborhood Clean Up. Back to the Original 1950s - 1970s - 1980s - 1990s - 2000s - 2010s - 2020s - 2030s - 2040s - 2050s - 2060s - 2070s - 2080s - 2090s - 2100s - 2110s - 2120s - 2130s - 2140s - 2150s - 2160s - 2170s - 2180s - 2190s - 2200s - 2210s - 2220s - 2230s - 2240s - 2250s - 2260s - 2270s - 2280s - 2290s - 2300s - 2310s - 2320s - 2330s - 2340s - 2350s - 2360s - 2370s - 2380s - 2390s - 2400s - 2410s - 2420s - 2430s - 2440s - 2450s - 2460s - 2470s - 2480s - 2490s - 2500s - 2510s - 2520s - 2530s - 2540s - 2550s - 2560s - 2570s - 2580s - 2590s - 2600s - 2610s - 2620s - 2630s - 2640s - 2650s - 2660s - 2670s - 2680s - 2690s - 2700s - 2710s - 2720s - 2730s - 2740s - 2750s - 2760s - 2770s - 2780s - 2790s - 2800s - 2810s - 2820s - 2830s - 2840s - 2850s - 2860s - 2870s - 2880s - 2890s - 2900s - 2910s - 2920s - 2930s - 2940s - 2950s - 2960s - 2970s - 2980s - 2990s - 3000s - 3010s - 3020s - 3030s - 3040s - 3050s - 3060s - 3070s - 3080s - 3090s - 3100s - 3110s - 3120s - 3130s - 3140s - 3150s - 3160s - 3170s - 3180s - 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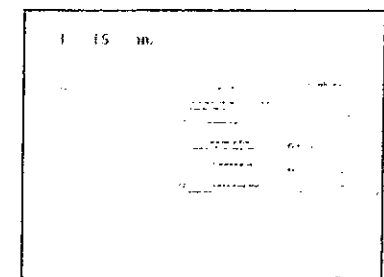
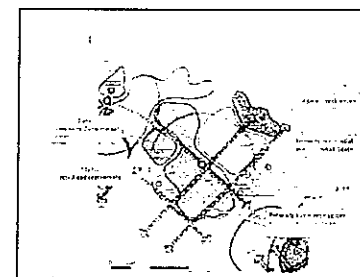
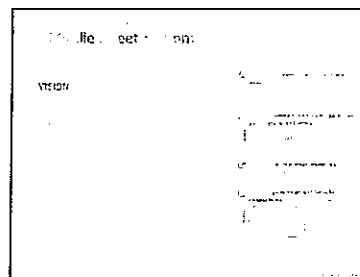
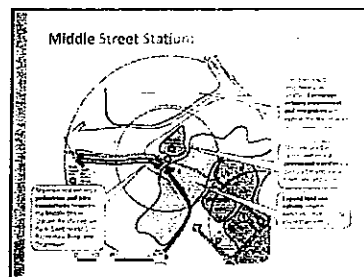
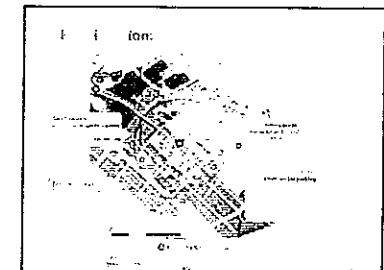
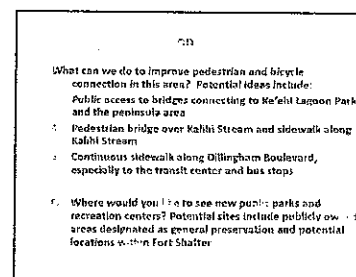
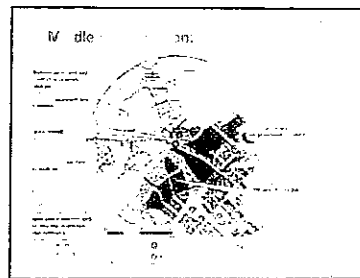
Emerging Concepts Exercise

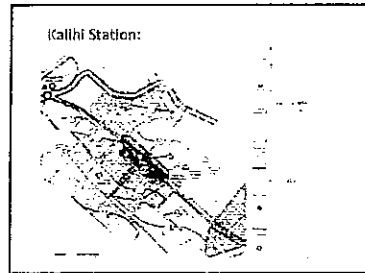
- Overall Emerging Vision
- Individual Stations (Middle Street, Kalihi, Kapalama)
- 1. *Issues Affecting Transit-Oriented Development* (Existing Conditions Analysis and Marketability)
- 2. *Community Feedback* (Community outreach and visioning results)
- 3. *Emerging Concepts* (Synthesis of #1 and #2 above)
- Does your group agree (✓) or disagree (X) with the Emerging Concept Items?
- As a group, please respond to each question on the worksheet.



Middle Street Station:

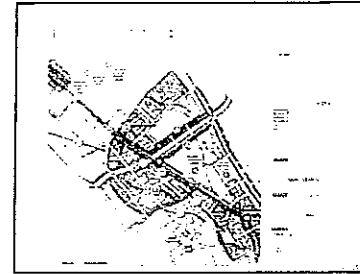
1. What type of development or uses should be located within the 100-year floodplain?
 2. In the areas outside the 100-year floodplain, continue existing manufacturing, distribution, and wholesale uses?
- OR Encourage new uses that capitalize on airport and freeway access such as airport hotel, mixed-income housing, big-box retail stores, and industrial spaces for offices?





Kalihi Station

1. Considering the area's proximity to the freeway, potential improvements to Kalihi Stream, and retail along King Street, continue existing mix of industrial and residential apartments?
2. Should OCCC be relocated in the long term, what type of uses would be ideal here?
Retain the largely industrial character or encourage more mixed-use development?



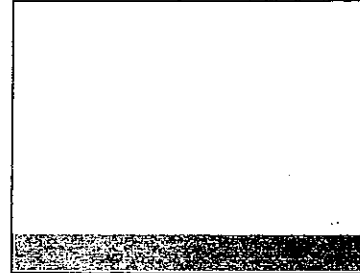
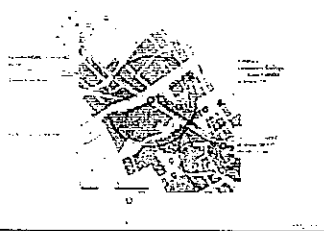
Kapalama Station:

1. Integrate big box stores with new mixed-use development? Or are there other uses or mixes of uses that should be prioritized here? (e.g. housing, office, research and development)
2. What type of improvements and features should the promenade along Kapalama Canal include? (e.g. lighting, boat access, bike paths)
3. What type of new parks would best serve this community and where would they be located?

Kalihi Station:

4. A) Which streets should have highest priority in improving as safe pedestrian and bicycle routes?
B) Which streets best connect schools, the station, and other community landmarks?
5. What type of street improvements would create an inviting and safe environment and which streets need them most?
6. Is this (vacant site on Dillingham) a good location for a new playground/urban park?

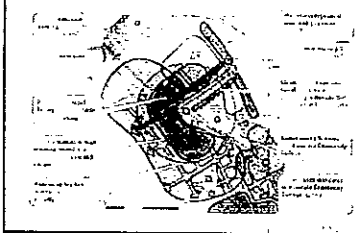
Kalihi Station:



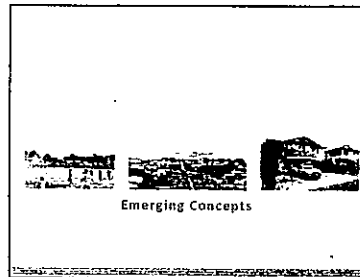
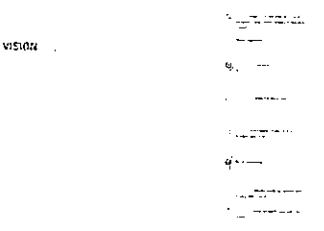
Next Steps

- Refine Emerging Concept
- Determine appropriate heights, densities, intensities
- January/February 2012 Community Workshop

Kapalama Station:



Kapalama Station:



SIGN-IN SHEET
KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP 2, October 25, 2011

Please Print Clearly! Please Print Clearly! Please Print Clearly! Please Print Clearly! Please Print Clearly!

| Name | Affiliation | Address | Email | Phone | How Notified |
|--------------------|--------------------|---------------------------------|----------------------------|----------|--------------|
| LOUI SEARLES | Kalihi Valley NB | 2433 Kalihi St | lssearles@gmail.com | 841-6894 | email/educ |
| Andrew Mungo | HART | | amungo@me.com | | email |
| Earl Williams | Hart | | earlofzion@gmail.com | | email |
| Dustin Furubashi | STATE DOE - Family | Faraway Hwy | | 216539 | |
| Richard L. Delaney | Citizen | 1111 Hdz Dr #202 | | 6480853 | Phone |
| Scott Peterson | | Kailua | Jeff. Peterson & Kapolei | 808-8019 | email |
| Kalani Ching | Citizen | 1623 Ala Aolani St. | Kalaniching@hawaii.com | 295-1477 | Radio |
| Kyle Poul | City Council | N/A | Khan@hawaii.gov | 808-2029 | email |
| Douglas K. Nitta | Citizen | 1727 KAPALAMA AVE | | 841-4836 | email |
| Schill L. Alima | Artist | 115 Elum St. | | 951-0811 | mail |
| John Camp | | 567 S. King St. Honolulu | Ccamp@kbc.edu | 534-8033 | |
| Patrick Karala | Kalihi Business NB | 1425 Kaula Ave | | 542-5161 | Mail |
| Albert Pardo | Citizen | 2190 Mikanani Dr Honolulu 96817 | patrick@hotmail.com | | email |
| CHRB E. Wilson | Citizen | 1928 Elumone St | | 620-4722 | |
| CHRB E. Wilson | Citizen | 1577 Kaula St | CHRB E. Wilson & A. Wilson | 222-8610 | Mail |
| WILLIAM L. L. L. | NHB #15 | 206 S. 700th St. Honolulu 96817 | | 542-4442 | |
| BRUNO M. M. M. | KALIHI BUSINESS NB | PO BOX 30525 Honolulu 96817 | | 848-1404 | Mail |
| ALBERT WONG | | 2374 MAKANANI ST | | | |
| Patricia Monta | LECEP | | | 221-0321 | |
| Art Bermudez | Realtor | 2153 N. King St #500 | artbermudez@yahoo.com | 478-4778 | Chen |

SIGN-IN SHEET
KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP 2, October 25, 2011

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| Name | Affiliation | Address | Email | Phone | How Notified |
|--------------------|------------------------|--------------------------------|------------------------------|----------|--------------|
| Delees Edge | Kalihi Resident | 2133 Kalihi St | raymondleeedge@yahoo.com | 783-6411 | Advocat |
| RAYMOND LEE | | 2424 KAPILANI 7th | | | |
| Chudy Feng | NB 15 | PO BOX 23593 Honolulu HI 96813 | chudy188@yahoo.com | 397-8183 | |
| MIKE GALT | | PO Box 34411 | | | |
| Riana Ramos | | PO BOX 3411 | | | |
| RICHARD CHENEY | Earthling | 1623 Ala Aolani St 96817 | rcheney@ksa.com | 237-9651 | K105 1 |
| Ryan Doyle | Star - Adventur | | Rdoyl@hawaii.com | 760-5017 | |
| Stacy Nitta | FLSID: MIT | 1727 KAPALAMA AVE | stacynitta@hotmail.com | 941-4114 | |
| Soiya Pasa | Tombant | 1450 Ala St Apt 1101 | | 521-8945 | |
| Wm A. Sittler | resident | 2019 Nuuanu Ave Apt 900 CT | | | |
| Rene G. G. G. | resident / Resident | 225 Kaula St Honolulu | rgg@hawaii.com | | |
| NALANI HILL | KALIHI Resident | PO BOX 30118 Honolulu | nalani.hill@gmail.com | 256-8450 | |
| Matt Dugan | FB | | mattdugan@yahoo.com | | |
| Josh Hill | FB | | | | |
| Tom Fee | HIF | 737 P. St. Ste 2950 | tfee@hif.com | 535-2055 | |
| Paul Camp | HOASAH Association LLP | | PCAMP@HOASAH-ASSOCIATION.NET | | |
| FLORIANE SETHIATRI | KALIHI | 2008 PULUPU ST | floriane.sethiatri@yahoo.com | 556-1253 | |
| Dominic Imura | Sustainable Living | 1117 Kaula St Honolulu | | 554-1001 | |

KALIHI NEIGHBORHOOD TOD PLAN - COMMUNITY WORKSHOP 2, October 25, 2011

[illegible]

Neighborhood Transit-Oriented Development Plan

September 26, 2012

Prepared by

October 2012



1 Introduction

This report describes the results of the third community workshop for the Kalihi Neighborhood Transit-Oriented Development (TOD) Plan, held on September 26, 2012. The workshop was designed as an open house to present and solicit feedback on the Public Review Draft of the Kalihi Neighborhood TOD Plan.

Community workshops are a key component of the public participation program for the Kalihi TOD Plan process; and this report summarizes this important outreach event. The introductory chapter provides an overview of the project, and Chapter 2 describes the format of the workshop and synthesizes the results.

PROJECT SCHEDULE AND PHASES

This project is organized into four phases, as shown in the graphic schedule below. Community involvement has been integral to shaping the plan, with neighborhood board meetings, public workshops, interviews, a survey, and a project website providing opportunities for input during each phase.



The Visioning & Existing Conditions phase included extensive community outreach and technical analyses that resulted in an overall vision and set of planning principles. The Emerging Vision/Concepts phase illustrated the emerging vision for the three station areas and explored options for land use, open space, and circulation. The Framework Plan phase formed the bridge between exploration of various options and the Draft TOD Plan. It outlined the overall concept for each station area and specific land use, circulation, and open space ideas. The Framework Plan was further refined following review by the Advisory Committee, government agencies and other project stakeholders.

The Final TOD Plan phase (underway) involves publishing the Draft TOD Plan; public and agency review of the Draft Plan; public hearings; and formal acceptance by resolution by the City Council.

2 Workshop Structure and Results

The project's third community workshop was held on Wednesday, September 26, 2012, at Farrington High School. Approximately 50 community members participated.

OBJECTIVES

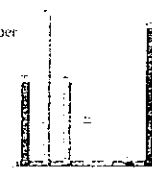
The purpose of this workshop was to present the major strategies and key components of the Public Review Draft of the Kalihi TOD Plan and ask for feedback from the public. Community comments will be considered when revising the Plan as needed, before the Plan is prepared for Planning Commission and City Council review and consideration.

FORMAT AND RESULTS

City staff and consultants opened the workshop with an exercise that asked questions and solicited answers from participants in real time using automated response or "clicker" devices. An initial set of questions asked participants some warm-up questions, including whether they lived or worked in the Kalihi planning area.

My role in the TOD planning process is:

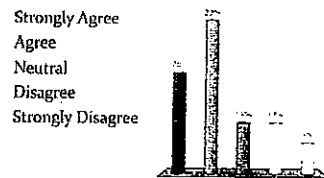
Community Member
Property Owner
Business Owner
Public Official
Consultant
Developer
Other



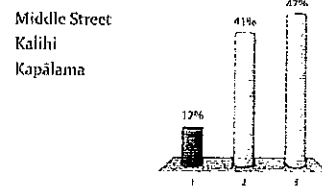
Next, staff and consultants presented information about the project and the planning process and described the major components of the plan, including land use, circulation, parks/open space, and infrastructure strategies. The presentation is provided in Appendix A.

The presentation was followed by a question and answer session and a second round of instant polling using the "clicker" devices. As illustrated below, 65 percent of participants agreed or strongly agreed that the TOD Plan generally reflects the community vision. Approximately 21 percent disagreed. Complete results from the real time polling exercise are provided in Appendix B.

The Kalihi TOD Plan generally reflects the community's vision.



The highest priority for public investment should be at which station area?



Next, the workshop moved into an open house format, where participants had an opportunity to review project posters and ask questions of staff and consultants at five "stations" set up around the room:

Stations:

- 1: Community Vision and Principles
- 2: Land Use
- 3: Streets and Transportation
- 4: Urban Design and Parks
- 5: Public Facilities and Implementation



Participants were encouraged to complete individual feedback forms to describe any additional comments on the plan.

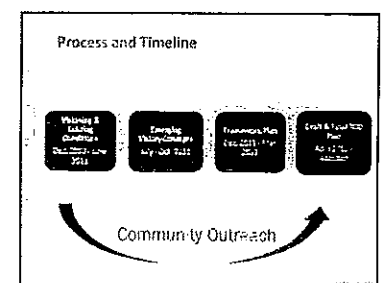
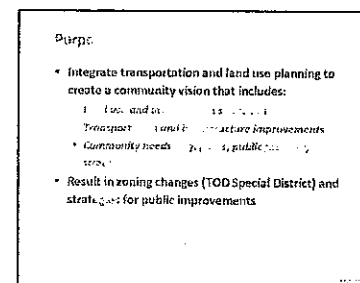
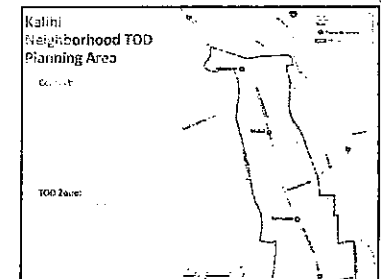
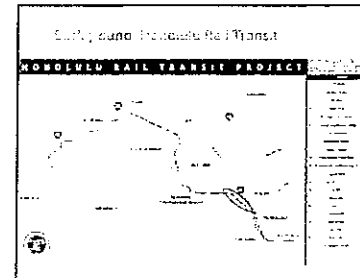
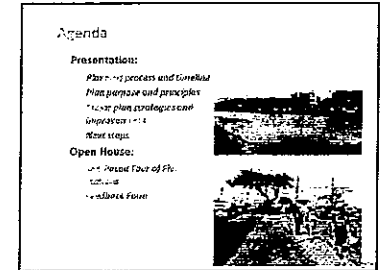
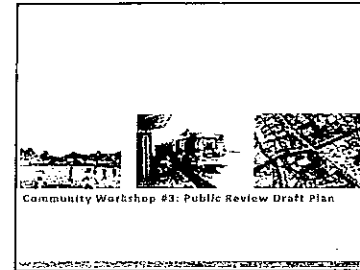


3 Next Steps

Comments on the Draft Kalihi TOD Plan will be collected through November 2, 2012 and can be sent directly to:

Renee Espiau
City & County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor,
Honolulu, HI 96813
(808) 768-8050
respiau@hawaii.gov

Comments will be reviewed and the Public Review Draft Kalihi Neighborhood TOD Plan will be revised, as appropriate. Next, a Hearing Draft version of the TOD Plan will be prepared for review by the Planning Commission and City Council to consider for adoption.



Community Visioning

Community Workshops
Stakeholder Meetings
Community Needs Survey

- 4,100 responses (25% response rate)

Community Summary

Community members value Kalihi's...

- Convenient access to bus transit, jobs, shopping and affordable housing; its parks, schools, small retail shops, and Bishop Museum;
- But, would like to see improvements in Kalihi's:
 - Safety, road conditions, cleanliness, appearance
 - Sidewalks, additional parking, more affordable housing, and additional children's playgrounds/parks;
 - landscaping, seating, crosswalks, lighting, and bus shelters
 - Coffee shops, restaurants, pharmacies, and convenience/grocery stores around rail stations

Community Vision

Kalihi will be a livable urban community with a balance of employment, residential, and recreational uses that enjoy high quality transit access and reflect the area's central location and rich cultural heritage. Neighborhoods will be pedestrian- and transit-friendly, enjoy access to good jobs, good food, safe streets, and quality open spaces, housing, and services.

Livable Kalihi will capitalize on the presence of Honolulu Community College, the area's proximity to Downtown, and its natural resources. The community's ethnic, income, age, and skill base's diversity is maintained through a variety of housing, commercial, education, and economic opportunities... Kapiolani, Kalia, and Middle Street will retain unique identities.

Guiding Principles

1. Revitalize Kalihi into a More Livable Community
2. Maintain and Enhance Diversity
3. Improve the Quality of Public Spaces
4. Improve Connections to the Waterfront
5. Create a Convenient and Accessible Transportation Network
6. Increase Public Safety

Technical Analyses

Existing Conditions Analysis:

- Land Use
- Transportation
- Environment
- Infrastructure

Market Demand Study:

- Economic Trends
- Projections by Use

Environmental Vision/Concepts

Physical Plan

Looking Diamond Head existing

Advisory Committee Meetings

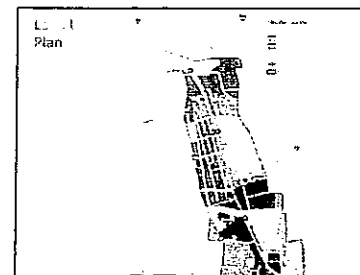
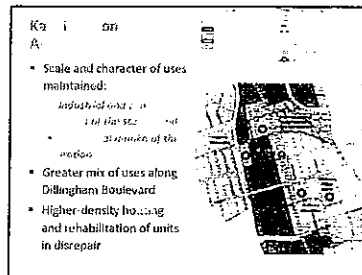
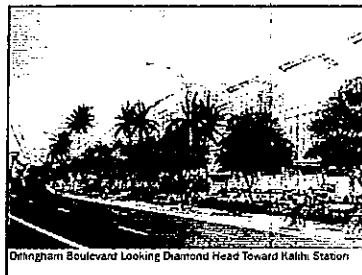
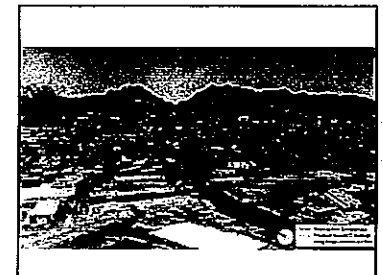
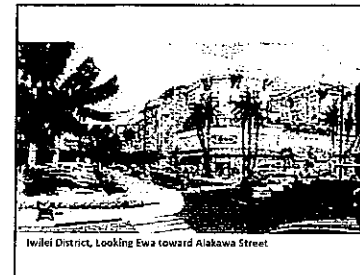
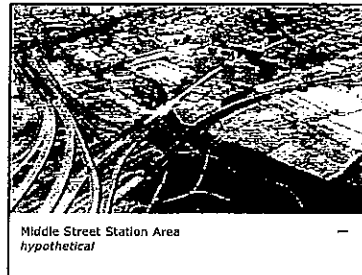
TOD Plan Components

1. Introduction
2. Land Use
3. Mobility
4. Urban Design
5. Public Facilities, Services, and Infrastructure
6. Implementation

Looking Diamond Head hypothetical

Middle Street Station Area

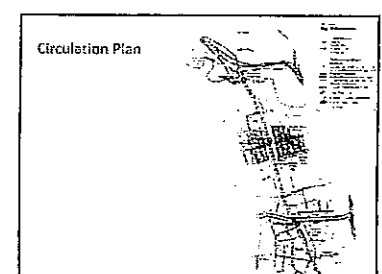
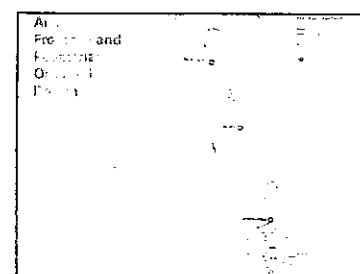
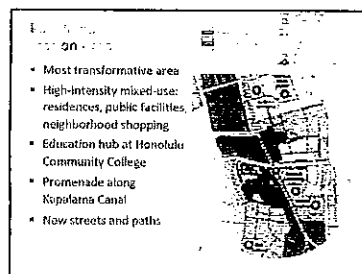
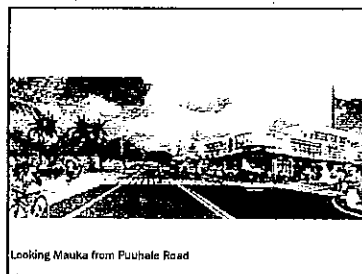
- Multi-modal hub
- New waterfront promenade and access to waterfront parks
- Commercial/industrial uses preserved makai of Nimitz Highway
- Long-term: revitalized district, catalyzed by transformation of OCCC

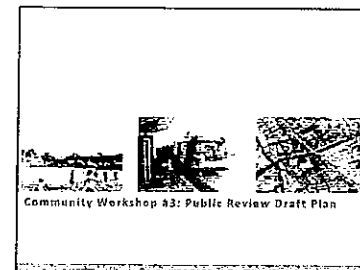
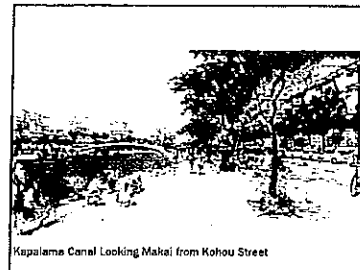
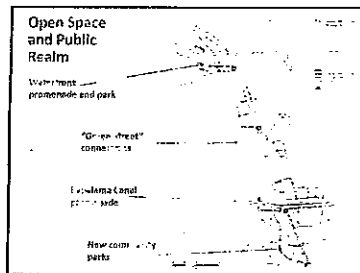
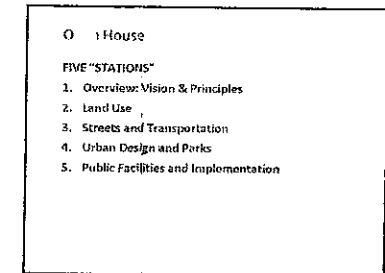
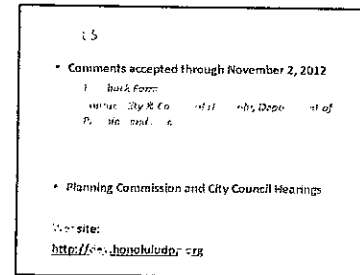
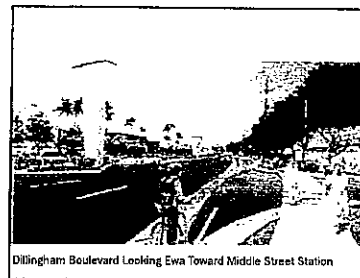
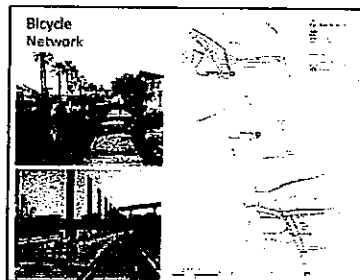
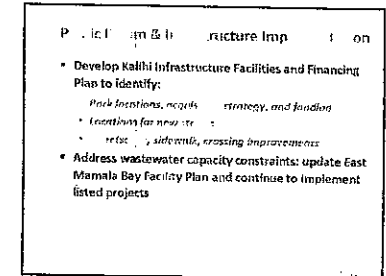
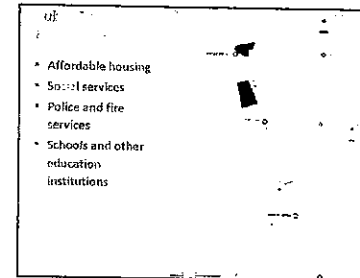
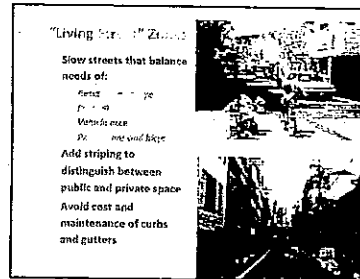
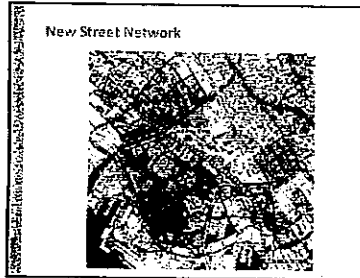


Development Potential

| | Existing Development | 2010 Plan (Net New Development) | 2010 Plan (Total Development) | 2010 Plan (Total Development) |
|---------------------------------|----------------------|---------------------------------|-------------------------------|-------------------------------|
| Existing Development | 3,700 | 4,134,000 | 716,220 | 8.5 |
| 2010 Plan (Net New Development) | 6,000 | 106,000 | 544,000 | 38.8 |
| 2010 Plan (Total Development) | 9,700 | 4,240,000 | 1,260,220 | 45.2 |

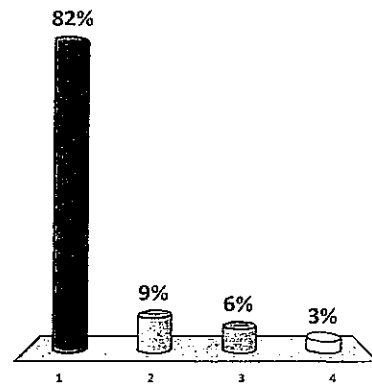
14,500 new residents (over 25,000 total)
2,200 new jobs (plus HCC and other public)
Most growth around Kapalama Station





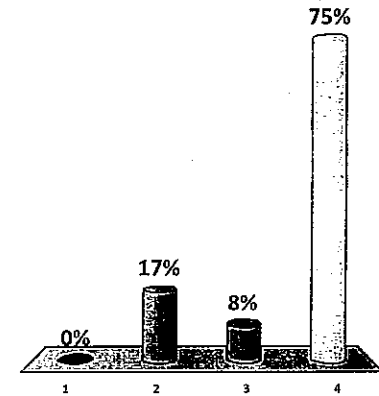
How did you get here tonight?

Car
Bus
Walk
Bike



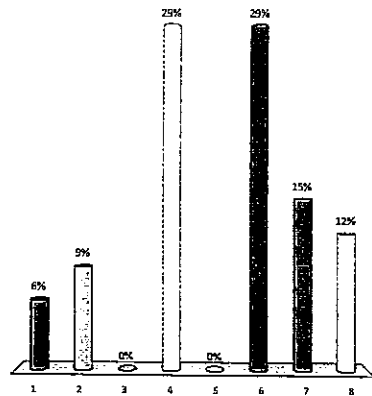
I live near:

Middle St. Station
Kalihi Station
Kapālama Station
Other



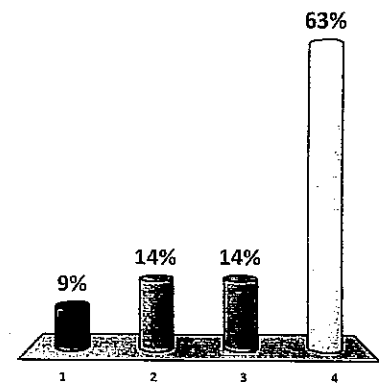
How did you hear about tonight's workshop?

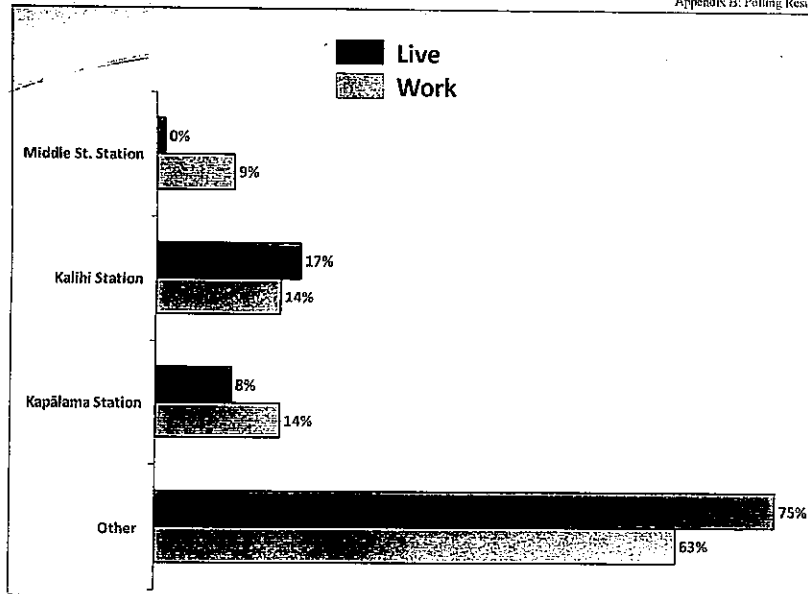
Radio
TV
Newspaper
Mail flyer
Twitter
Email
Word of mouth
Other



I work near:

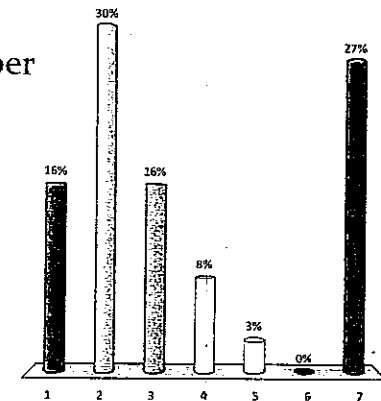
Middle St. Station
Kalihi Station
Kapālama Station
Other





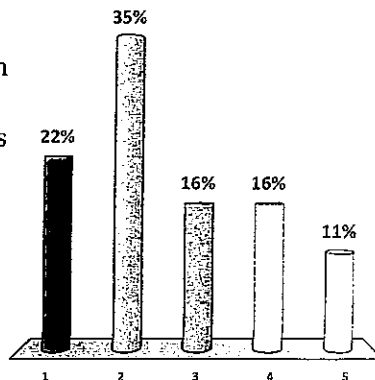
My role in the TOD planning process is:

Community Member
 Property Owner
 Business Owner
 Public Official
 Consultant
 Developer
 Other



Which TOD benefit is most important to you?

Less auto dependency
 Neighborhood revitalization
 Improved access to jobs, schools, shopping & services
 Lower housing & transportation costs
 Reduced environmental & land use impacts

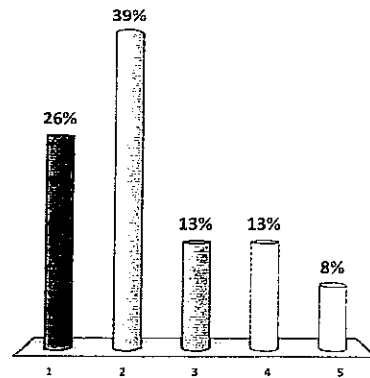


Is this your first TOD workshop?



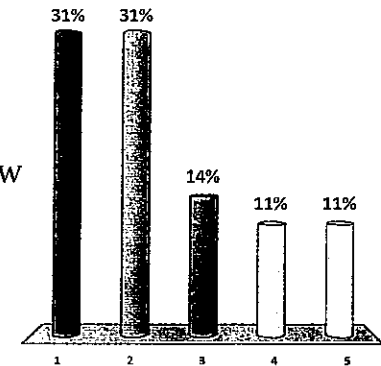
The Kalihi TOD Plan generally reflects the community's vision.

Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree



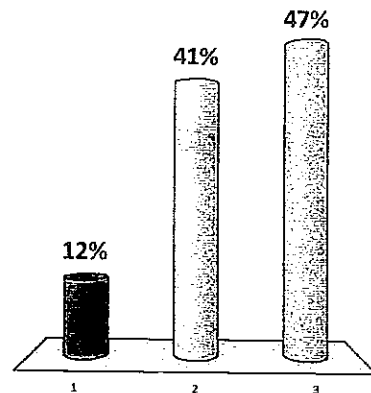
The Plan vision, principles, and recommendations are valid even without rail.

Strongly Agree
Agree
Neutral/Don't Know
Disagree
Strongly Disagree



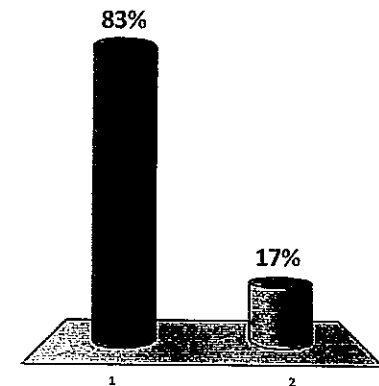
The highest priority for public investment should be at which station area?

Middle Street
Kalihi
Kapālama



Is the November 2nd deadline enough time to provide your feedback?

Yes
No



Please Print Clearly

| NAME | ADDRESS | PHONE | EMAIL | ADDRESS | PHONE | EMAIL | NAME |
|------------------|----------------|-------|-------|----------------|-------|-------|------|
| KOROL Higa | 2614 Namaku B. | 76817 | 76817 | 2614 Namaku B. | 76817 | 76817 | MAJI |
| Reay Jennifer | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| RUSSETT Jennifer | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| JOH VOSHIMUNA | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| KOKO DIAZ | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| P.C. DORNINGO | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| DORNINGO Anthony | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| WESTER HESTER | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| HONG NICHOLSON | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |
| GRANDERAKO | 156: Kumbua St | 76819 | 76819 | 156: Kumbua St | 76819 | 76819 | MAJI |



Kalihi

Neighborhood Transit-Oriented Development (TOD) Plan

Community Meeting #4 Summary Report

Doc. # 2, 2014



Introduction

This summary describes the fourth community meeting for the Kalihi Neighborhood Transit-Oriented Development (TOD) Plan, held on December 2, 2014. The public meeting was an opportunity for the community to learn about the Kalihi TOD Plan and any changes that have been made since the Public Review Draft was published in 2012.

Community meetings and workshops are a key component of the public participation program for the Kalihi TOD Plan process. The planning process has been organized into four phases, as shown on the graphic schedule below. Community involvement has been integral to shaping the plan, with neighborhood board meetings, public workshops, interviews, a survey, and a project website providing opportunities for input during each phase.



The Visioning & Existing Conditions phase included extensive community outreach and technical analyses that resulted in an overall vision and set of planning principles. The Emerging Vision/Concepts phase illustrated the emerging vision for the three station areas (Middle Street, Kalihi, and Kapalama) and explored options for land use, open space, and circulation. The Framework Plan phase formed the bridge between exploration of various options and the Draft TOD Plan. It outlined the overall concept for each station area and specific land use, circulation, and open space ideas. The Framework Plan was further refined following review by the Advisory Committee, government agencies and other project stakeholders.

The Final TOD Plan phase (underway) has involved publishing the Draft TOD Plan in 2012; public and agency review of the Draft Plan; and incorporation of comments into the Draft Final Plan (November 2014). The final steps of this phase include public hearings at the Planning Commission and City Council and formal adoption by resolution by the City Council—planned for early 2015.

Meeting Format and Participant Discussion

Community Meeting #4 was held on Tuesday, December 2, 2014, at 6:30 pm in the Farrington High School Library. Approximately 40 community members participated. They were each provided with a summary brochure of the Plan and a table of all comments received on the Draft Plan and the City's response to each comment. Attendees were also asked to identify on a map the location of their home and/or workplace in Kalihi on a map that has been used for the same purpose at previous community meetings. The cumulative mapping of participants in the Kalihi TOD planning process is shown at right.

The objectives of the meeting were to present and discuss changes to the Kalihi TOD Plan and confirm that the Plan still represents the goals and visions of the community.

The public meeting opened with a welcome by City Councilmember Joey Manahan.


Department of Planning and Permitting (DPP) staff then presented an overview of the Kalihi TOD Plan and the major changes that have been made since the 2012 Public Review Draft.

The presentation (attached to this summary) was followed by an opportunity for audience questions. The following questions were asked by participants:

- Is federal money being used for redevelopment? Is the City condemning property for TOD? *Federal funds are being used for the rail project itself, and the City recently received an EPA grant to fund assessment of brownfield sites in the TOD corridor. The City does not anticipate condemning property for TOD in the Kalihi area.*
- When is construction of the rail project slated to begin in Kalihi? *The exact construction schedule will depend on the selected contractor but may begin in 2016 and continue through 2018 (rough estimate). HART and its contractor will work with area businesses to reduce temporary impacts.*
- Is there station parking at any of the Kalihi rail stations? Isn't parking planned at the Middle Street Intermodal Center? *HART is not planning to construct public parking facilities at any of the Kalihi stations, but the City Department of Transportation Services has long-term plans (currently unfunded) to construct a parking garage at the Middle Street Intermodal Center.*
- Is the City suggesting new affordable housing development or requiring it? *The City administration is proposing a new requirement that all new housing developments on Oahu over a certain number of units must provide a percentage of affordable units.*

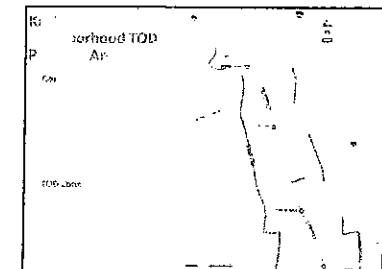
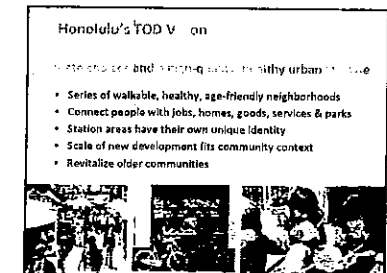
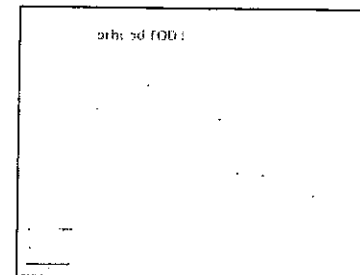
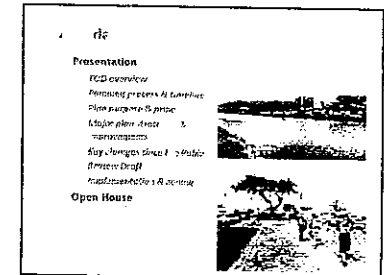
Next Steps

Following adoption of the Plan, DPP will prepare draft TOD zoning for the Kalihi station areas and again provide opportunity for the community to review and comment at community meetings and Planning Commission and City Council hearings. DPP will review development proposals in the TOD Zone for consistency with the vision and recommendations in the Plan.



Community Meeting #9

NEW ORLEANS
Continued



Purpose

- Integrate transportation and land use planning to create a community vision that includes:
 - Land use and transportation design strategies
 - Transportation and infrastructure improvements
 - Community needs (e.g., parks, public facilities, streetscapes)
- Result in zoning changes (TOD Special District) and strategies for public improvements

Page 1

Project Location

Page 2

Community Vision

Kalihi will be a vibrant urban community with a balance of employment, residential, and recreational uses that enjoy high quality transit access and reflect the area's central location and urban form. Neighborhoods will be pedestrian and transit friendly, enjoy access to good jobs, good food, safe streets, open spaces, housing, and services.

Revitalized districts will build on the presence of Honolulu Community College, the area's proximity to Downtown, and its natural resources. The community's ethnic, income, age, and small business diversity is maintained through a variety of housing, commercial, education and economic opportunities. Kalihi's Midway Street will retain its unique character...

Page 3

Guiding Principles

- Revitalize Kalihi into a More Livable Community
- Maintain and Enhance Diversity
- Improve the Quality of Public Spaces
- Improve Connections to the Waterfront
- Create a Convenient and Accessible Transportation Network
- Increase Public Safety

Page 4

Community Visioning

Community Workshops
Stakeholder Meetings
Community Needs Survey
4,100+ of public response cases

Page 5

Community Survey

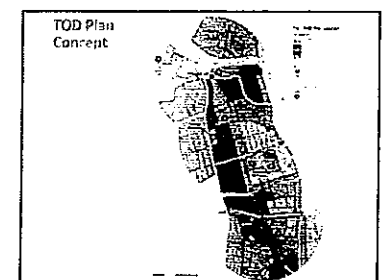
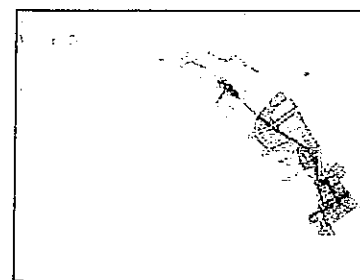
Community members value Kalihi's:

- Convenient access to bus transit, jobs, shopping and affordable housing; its parks, schools, small retail shops, and Bishop Museum;

But, would like to see improvements in Kalihi's:

- Safety, road conditions, cleanliness, appearance
- Services, additional parking, more affordable housing, and additional children's playgrounds/parks;
- Landscaping, seating, crosswalks, lighting, and bus shelters
- Coffee shops, restaurants, pharmacies, and convenience/grocery stores around rail stations

Page 6



Technical Analysis

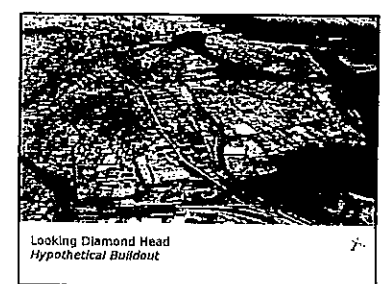
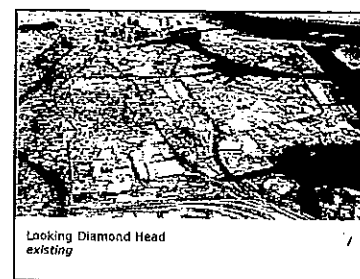
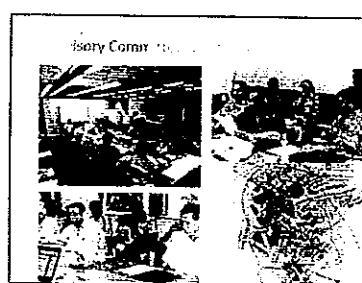
Existing Conditions Analysis:

- Land Use
- Transportation
- Environment
- Infrastructure

Market Demand Study:

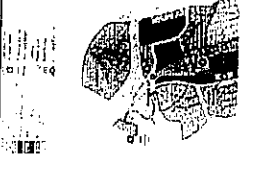
- Economic Trends
- Projections by Use

Page 9



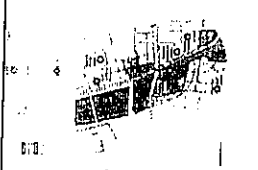
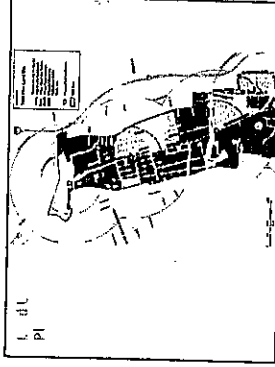
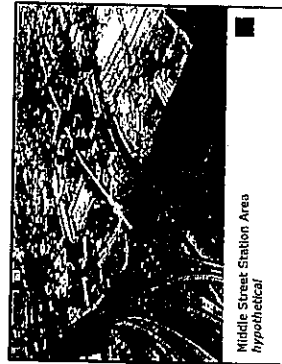
Middle Street Station Area

- Multi-modal hub
- New waterfront promenade and access to waterfront parks
- Commercial/industrial uses preserved/mixed with Nimitz Highway
- Long-term: revitalized district, catalyzed by transformation of OCCC




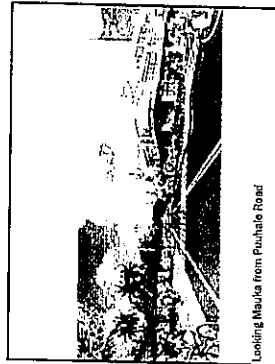

(a)

- Most transformative area
- Intensely mixed-use: residences, public facilities, neighborhood shopping
- Education hub at Honolulu Community College
- Promenade/linear park along Kapiolani Canal
- New streets and paths

Kakaia Station Area

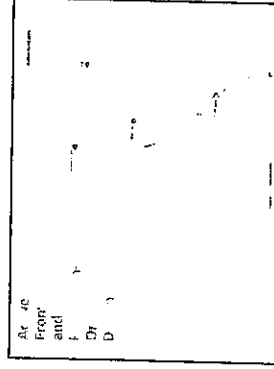
- Scale and character of uses maintained;
 - Industrial and commercial
 - Residential
- Greater mix of uses along Dillingham Boulevard
- Higher-density housing and rehabilitation of units in disrepair

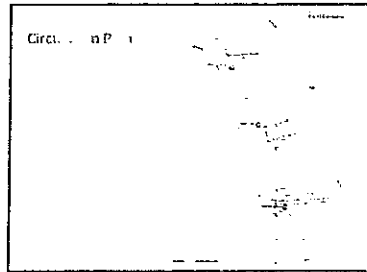



(b)

| | | | | |
|--------------------------------|-------|-----------|-----------|------|
| Existing Development | 1,700 | 4,700,000 | 714,000 | 8.5 |
| 200 New Jobs (New Development) | 8,000 | 200,000 | 451,000 | 37 |
| 200 New Jobs (New Development) | 9,700 | 4,900,000 | 1,165,000 | 45.5 |

14,500 new residents (over 25,000 total)
1,900 new jobs (plus HCC and other public)
Most growth around Kapiolani Station





"Urbane" Zone

Slow streets that balance needs of:

- Local employees
- Pedestrians
- Motorists
- Bicyclists

Add striping to distinguish between public and private space

Avoid cost and maintenance of curbs and gutters

Key Changes to the Plan following Comments on the Public Review Draft

Land Use:

- **Residential:** 100% of the area is residential.
- **Commercial:** 100% of the area is commercial.
- **Industrial:** 100% of the area is industrial.

Height/Intensity:

- **Residential:** 100% of the area is residential.
- **Commercial:** 100% of the area is commercial.
- **Industrial:** 100% of the area is industrial.

Key Changes to the Plan following Comments on the Public Review Draft

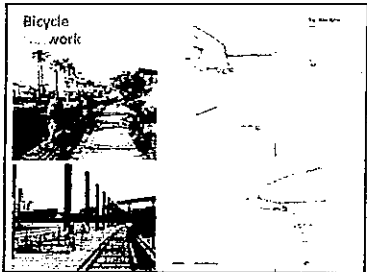
Open Space, Yards & Affordable Housing: Details removed from the Plan City pursuing new strategies.

Historic Preservation/Rehabilitation: Overlaid Plan recommendations to not interfere and removing barriers.

Wastewater Capacity: Provided additional status on wastewater system study.

Airspace Impacts: Aerial photography would need for development projects to not FAA.

TOD PLAN



Dillingham Boulevard Looking Ewa Toward Middle Street Station

Key Changes to the Plan following Comments on the Public Review Draft

Kapalama Station: Plan has been updated to cover the area.

Pedestrian Oriented Design at Middle Street: Plan has been updated to cover the area.

Property Tax Incentives: Plan has been updated to cover the area.

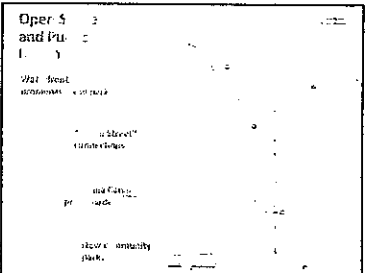
And more...

TOD PLAN

Implementation: Public Improvements/Services

- Develop Kapalama/Iwilei Infrastructure Facilities and Financing Plan to identify:
 - Park lanes, acquisition strategy, and funding
 - Locations for new streets
 - Streetscape, sidewalk, crossing improvements
- Continue to address wastewater capacity constraints
- Ensure adequate public and social services

TOD PLAN



Kapalama Canal Looking Makai from Kohou Street

Key Changes to the Plan following Comments on the Public Review Draft

Mixed-Use Zoning & Building Design

Community Benefits: Plan has been updated to cover the area.

Property Investment: Plan has been updated to cover the area.

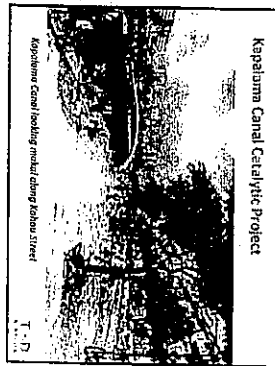
Parking: Plan has been updated to cover the area.

TOD PLAN

Overall TOD Implementation Strategy

- Establish TOD Sub-cabinet; coordinate investments
 - Station walking orders completed in adopted budget
- Finalize and adopt Neighborhood TOD Plans
 - 15 of 19 station areas have draft TOD Plans completed
- Implement zoning and process improvements
- Develop financing and incentive tools
- Develop and implement housing strategy
- Enhance partner roles in TOD
- Develop catalytic projects
 - Pearlridge, Kapalama, Alaiah Center

TOD PLAN



Islandwide Housing Strategy

- Islandwide housing and community building vision, policy plan, and implementation strategies
- To be incorporated into, but not limited by, and coordinated with a variety of public/private plans
- TOD-specific housing strategy/policies, codes and zoning, priority projects and targeted funding
- Revised public participation, metrics, programs, investments, and financial tools
- Focus on smaller scale, denser housing: 1 PMT metric, or less
- All, across more projects at longer, up to 10-year period
- New building types (multifamily, row houses, etc.)
- Accessory dwelling (garage, etc.) on existing lots

Land Use Ordinance (LUD) & Zoning Map Amendment

Interim Planned Development - Transit Permit (PPD-T)

• Identify and designate land use - to be used for TOD projects prior to rezoning of land for transit-oriented development, zoning maps, and LUD text

Proposed TOD Special District (entire rail corridor)

• Use and design standards for TOD projects

• Redesignated TOD Special District

• Community development, etc.

Proposed Zoning Map Changes (each TOD zone)

• Allow for more mixed use, e.g. retail, food, etc.

• Redesignated TOD Special District

• Redesignated TOD Special District

www.kapiolani.org
Facebook: TODHonolulu

Complete Streets

- Streets are the city's most visible, largest access to public space - and cost-effective
- Complete Streets project under way
- Cycle tracks and bike lanes - King and Keolu
- Interim Design Strategies
- Design and construction

Proposed PPD-T

• Identify and designate land use - to be used for TOD projects prior to rezoning of land for transit-oriented development, zoning maps, and LUD text

Proposed TOD Special District (entire rail corridor)

• Use and design standards for TOD projects

• Redesignated TOD Special District

• Community development, etc.

Proposed Zoning Map Changes (each TOD zone)

• Allow for more mixed use, e.g. retail, food, etc.

• Redesignated TOD Special District

• Redesignated TOD Special District

SIGN-IN SHEET

Kalihi Neighborhood TOD Plan Community Meeting #4, December 2, 2014

Please Print Clearly

| Name | Affiliation | Address | Email | Phone |
|--------------------|-------------------------|------------------------------------|------------------------------------|----------|
| ✓ Carol Kaup | NB 14 | | Carol.Kaup@gmail.com | 841-7050 |
| ✓ Bob Niketa | FACE | | | |
| ✓ Terry Sasamura | FACE | 1731 Hau St. Honolulu, HI 96819 | terrysasam@gmail.com | |
| ✓ Ross Sasamura | C&C/DFM | 1000 ULUOHIA ST, KAPOLOA, HI 96707 | rsasamura@honolulu.gov | 268-3343 |
| ✓ Mimi Albert Ueno | Property owner | 1316 Kihuna St. Kihuna, HI 96734 | | 262-3357 |
| ✓ Hong Nguyen | Property owner | 906 Kaula Rd 96819 | | 732-5657 |
| ✓ Laura Vines | DOE | 626 McNeil Street 96817 | laura_vines@notes.kalihi.us | 832-3322 |
| ✓ Louise Cayetano | Kalihi Teacher (Kalihi) | 641 Kuanani Lane, H1917 | laurse.cayetano@gmail.com | 372-8365 |
| ✓ Alex Bueno | City Square | 1281 Kalamia St. #206 96817 | alex@citysquarehawaii.com | 843-0095 |
| ✓ EMANUEL KURETU | KPHC | 915 N. KING ST 96817 | EMANUEL@KPHC.ORG | 791-6315 |
| ✓ ADAM HORS | STELLAR COMM. INC | | ADAM@STELLARCOMM.ORG | 961-2102 |
| ✓ Kathleen Triarte | Hunt Companies, Inc | 737 Bishop St. # 2750, H1913 | Kathleen.Triarte@huntcompanies.com | 792-3763 |
| ✓ NORMAN HON | BOLT | | norman.hon@bolt.hawaii.gov | 694-8022 |
| ✓ Kay Fox | Resident | 1131 Kihuna St. Hono 96819 | | 848-8688 |
| ✓ Jacob Fergus | Fergus & Co | 716 Umi St | jacob.fergus@gmail.com | |
| ✓ Ronald Higo | | 2614 N. A. M. Ave. Dr. 96817 | | |
| ✓ Dawn Mahi | KKV | 3659 Kalihi St 96819 | dawnmah@gmail.com | 841-7504 |
| ✓ Laura Taylor | KKV | | laura.taylor@kapiolani.org | 262-1772 |
| ✓ Morton Lau | | 2920 S. King St 96826 | morton.lau@kapiolani.org | 955-8816 |
| ✓ Cecile Yasuda | Sen. Pres. Donna Ku | | cecile.yasuda@hawaii.gov | 526-8447 |
| ✓ Anita Hirschman | Civil Bond | | anita.hirschman@hawaii.gov | |

Kalihi Neighborhood TOD Plan Community Meeting #4, December 2, 2014

[illegible]

KALIHI Neighborhood TOD Plan ~ Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----|-----------|-------------------------------|--|--|
| 1. | Sept 2012 | Kalihi Residents I | Residents like the ideas presented in the Plan and would like to see roadway improvements, better pedestrian safety for youth and seniors, and preservation of "mom and pop" businesses. | No revision necessary |
| 2. | Oct 2012 | Kalihi Employer I | The Kalihi station area (especially within ¼ mile of the station) should be zoned for high-density mixed use, not restricted to industrial mixed use, to stimulate TOD. | The Plan continues to recommend medium-intensity mixed use along Dillingham Boulevard and industrial mixed-use zoning in the Kalihi station area makai of Dillingham Boulevard in order to preserve this area as an employment center—one of the last on the island where small business tenants can own the fee to their property. The proposed restriction on housing in industrial mixed-use zones has been removed from the Plan. |
| 3. | Nov 2012 | Honolulu Resident & Architect | Require TOD projects to achieve LEED Silver Certification (green building standards) and provide incentives for LEED Gold or higher. | Green buildings are encouraged by the Plan, but the City is not endorsing one particular rating system. No revision necessary. |
| 4. | | | Existing infrastructure must be upgraded to support higher densities. The cost of upgrades should be subsidized by development projects. | The Plan acknowledges the need for upgrades to existing infrastructure. Various financing options are available, many requiring a contribution from new developments. No revision necessary. |
| 5. | | | Narrow roadways to increase sidewalk widths and provide buffered bicycle lanes where parked cars provide protection between moving traffic and bicycles/pedestrians. | The Plan has been amended to add language encouraging protected bicycle lanes, where possible. |
| 6. | Nov 2012 | Kamehameha Schools | Add more emphasis on public-private partnerships and government incentives and coordination as a financing strategy. | The Plan has been amended to strengthen language about the City being a partner in TOD implementation. |
| 7. | | | It may be unrealistic for new development to provide the extent of new parks and open space proposed in the Plan. | Specific open space requirements have been removed from the Plan. The City is currently updating its open space/park dedication requirements in TOD areas. The Plan presents various options used in other cities to fund new park space. |

Comment Sheet
KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----|------|-----------|---|--|
| 8. | | | In lieu of new vehicular street connections, pedestrian connections should be provided to encourage walkability and pedestrian circulation. | The City prefers that new street connections be provided to distribute new and existing vehicular traffic (including access to redeveloped sites), negating the need to widen existing area streets. A connected street grid not only improves pedestrian connectivity, but it also helps to keep traffic volumes low and compatible with walking and biking. No revision. |
| 9. | | | Active ground floor frontage may not be feasible. Likewise, prohibiting auto-oriented establishments may prevent development. | The Plan does not specify the uses that are or are not allowed in active ground floor frontages. These may be storefronts but could also be residential lobbies, community spaces, or offices. Auto-oriented uses may be appropriate in some places in Kalihi but not along key streets in the areas immediately surrounding the rail stations. No revision. |
| 10. | | | Increase maximum building heights along Kapalama Canal. | The Plan has been amended to increase the maximum building height along Kapalama Canal from 150' to 200' with commensurate community benefits. |
| 11. | | | Description of contaminated properties may be understated given historical industrial uses. | The Plan has been amended to acknowledge potential and add language about federal and State brownfields grants. |
| 12. | | | Support market-driven approach to parking | No revision necessary |
| 13. | | | Proposed bicycle parking seems excessive. | Ten percent of vehicular parking is a common standard for urban areas. The survey showed 29% of households in Kalihi had one or more adult bikes, and 27% had one or more children's bikes. No revision. |
| 14. | | | Proposed urban design strategies may make TOD more difficult and expensive. | Language has been added to the Plan encouraging living walls and art where avoidance of blank walls is not feasible. The TOD Special District will require more stringent urban design for buildings on key streets immediately surrounding the rail stations than in areas farther away. |

Comment Sheet
KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----------------|------------|---------------------------------------|---|---|
| 15. | | | Wastewater, water and drainage systems are not equipped for high-intensity development. City needs to commit to make improvements to reduce the burden on developers. | The City is working with developers to coordinate the timing of infrastructure improvements with developments. The Plan has been amended to demonstrate the City's progress in improving wastewater capacity in some areas of Kalihi. |
| 16. | | | Confirm the housing affordability requirement for TOD, and allow SROs to be counted towards this requirement. | The City has recently proposed new inclusionary housing requirements for all new development on Oahu. The Plan has been amended to remove the proposed percentages and encourage SROs. |
| 17. | | | TOD zoning should be flexible, reasonable, and market driven, and it should allow for maintenance and expansion of nonconforming uses and structures. | TOD zoning will allow a mix of uses and have provisions that are more accommodating of uses and structures that become nonconforming as a result. No revision. |
| 18. | April 2014 | Historic Hawaii Foundation | The rail transit project is subject to agreements that affect land use and planning issues, including TOD. | The Plan has been amended to include a description of HART's Programmatic Agreement. |
| 19. | | | Plan should include stronger language about preservation of historic and cultural resources. | The Plan has been amended to include revised and additional language related to historic and cultural resources, including new proposed policies. |
| 20. | May 2014 | First Hawaiian Bank (FHB) | FHB properties near the Middle Street station may be more appropriately zoned as urban mixed use in the future, rather than industrial mixed use as proposed by the Plan. | The Plan has been amended to show the lands on the makai side of Kamehameha Highway as Urban Mixed Use – Medium. |
| AGENCIES | | | | |
| 21. | Sept 2012 | Federal Aviation Administration (FAA) | Future development of proposed structures that meets certain distance criteria from airport runways and heliports requires notification to the FAA. | Language on this requirement has been added to the Building Heights portion of the Plan. |
| 22. | Oct 2012 | State Dept of Health | The Dept supports TOD as a way to promote healthy air quality and reduce greenhouse gas emissions. | No revision necessary |

Comment Sheet

KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----|----------|----------------------------------|---|--|
| 23. | Oct 2012 | Dept of Community Services (DCS) | New housing units in the Kalihi corridor should be encouraged to participate in the Housing Choice or Section 8 program to attract lower income tenants and enhance rail ridership. | The Plan has been amended to add these programs to Policy PF-P4. |
| 24. | | | New retailers in the Kalihi corridor should be encouraged to communicate with DCS regarding employment training. | The Plan has been amended to add these programs to Policy PF-P3. |
| 25. | | | DCS supports the Plan's priority to improve pedestrian safety near Kalihi-Kai Elementary and Kalakaua Middle School. | No revision necessary |
| 26. | | | Add the efforts of the WorkHawaii Division, which interacts with the Oahu WorkForce Investment Board to connect employers with job seekers and provide training. | The Plan has been amended to add this responsibility to the description of DCS in Chapter 6: Implementation. |
| 27. | Oct 2012 | Honolulu Fire Dept | Standard comments on fire department access roads and water supply | Proposed new street connections may improve fire department access. No revision necessary. |
| 28. | Oct 2012 | Honolulu Police Dept | No comments | No revision necessary |
| 29. | Oct 2012 | Dept of Facilities Maintenance | Which agencies will be responsible for maintaining the proposed improvements? | Responsible agencies/departments specified in Chapter 6 tables and text. |
| 30. | | | On "Green Streets," use street trees with non-aggressive surface root systems. | A new policy (UD-P11) related to street tree root systems and pavement uplift has been added to the Plan. All street tree are to be reviewed by the Department of Parks and Recreation Urban Forestry Division. |
| 31. | | | The Plan recommends improvement of private streets in the station areas. Will the City take ownership of private streets upon completion of improvement? | It has been clarified in the Plan that private streets will continue to be owned and maintained privately. |
| 32. | Oct 2012 | Land Use Permits Division, DPP | Where is the delineation between the Kalihi and Downtown TOD Zones? | Currently, the two planning areas do not have a clear boundary as they are united by Kapalama/Iwilei in the middle. If a clear boundary becomes necessary, it will be proposed with the TOD zoning for the area. |

Comment Sheet

KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----|----------|--|--|--|
| 33. | | | Living Street landscape improvements may require a waiver or variance and should be included in the Land Use Ordinance amendment for TOD. | The City is working on amending existing codes that would serve as a barrier to implementation of Living Street design. |
| 34. | | | Where did the specific open space requirements in Chapter 6 come from? | These were based on existing lot coverage requirements, however, the Plan has been amended to remove the open space percentage requirements. |
| 35. | Nov 2012 | State Dept of Education | Need to consider the impact of 6,000 new housing units in Kalihi on the public schools serving these redeveloped areas, including a possible new school impact district. | These impacts are discussed in Chapter 5: Public Facilities, Services, and Infrastructure. The Plan has been amended to revise Policy PF-P2. |
| 36. | | | The enrollment data and status of Puuhale Elementary School are out of date. | The Plan has been amended to update enrollment data and remove reference to potential closure of Puuhale Elementary School. |
| 37. | Nov 2012 | State Dept of Land & Natural Resources | Land Division – Oahu District, Division of Boating and Ocean Resources, and Division of State Parks have no comments. | No revision necessary |
| 38. | | | Historic Preservation Division (SHPD) is concerned that TOD may have an effect on historic properties and that there is not enough information in the Plan or the rail project FEIS for SHPD to evaluate which historic properties may be affected, the nature of the effect, and appropriate mitigation measures. | The Plan encourages the preservation, restoration and reuse of historic resources. Also, it does not target specific sites/structures for redevelopment. It is beyond the scope of the Kalihi Neighborhood TOD Plan to identify historic properties not already listed on a historic register or identified by the rail project FEIS. No revision. |
| 39. | Nov 2012 | State Dept of Transportation | Building heights should depend on FAA airspace determination and coordination with FAA. | Based on FAA maps, the proposed maximum heights do not appear to conflict with FAA height restrictions. A reference to FAA notification requirements has been added to the Plan. |
| 40. | Nov 2012 | Honolulu Authority for Rapid Transportation (HART) | HART oversees a \$2M fund for exterior improvements to historic resources. | The Plan has been amended to list this program as a funding opportunity. |

Comment Sheet

KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|--------------------------------|----------|--------------------------------------|--|---|
| 53. | Jan 2013 | Dept of Transportation Services | Redevelopment of all properties and roadways in the TOD areas should comply with the City's Complete Streets ordinance. | The intent of the Plan is to implement Complete Streets throughout the Kalihi TOD areas. The Plan has been amended to explicitly refer to "Complete Streets" improvements. |
| 54. | | | Rezoning for increased density near the rail stations will have major traffic impacts. | Projected transportation conditions, including traffic, are discussed in Chapter 3: Mobility. Traffic conditions resulting from TOD are projected to be better than a "business as usual" development scenario. No revision. |
| 55. | | | New proposed streets should be designed to improve the connectivity of the street network in the TOD area. "T" intersections should be avoided. | The Plan supports a connected street network and development of new street connections, effectively reducing the number of "T" intersections. Where three-way intersections are shown in the Plan, their layout is merely conceptual and illustrative. No revision. |
| 56. | | | All affected Neighborhood Boards, as well as area residents, businesses, etc. should be regularly apprised of the project and its impact on the local street network. | The City continues to inform the Neighborhood Board, area residents, and local businesses and organizations about the progress of the TOD Plan. No revision. |
| 57. | Nov 2014 | Site Development Division, DPP | Update Drainage section in Chapter 5 to reflect new drainage rules and standards related to low impact development (LID). | The Plan has been amended to reflect the City's most up-to-date drainage rules and standards. |
| 58. | Nov 2014 | Dept of Environmental Services (ENV) | Update the Wastewater section in Chapter 5 to better reflect actual system capacity and the City's progress in analyzing system capacity and implementing upgrades to the collection and wastewater treatment plant systems. | The Plan has been amended to reflect that there is more wastewater system capacity in some areas of Kalihi than was assumed when the PRD was published. The updated Plan demonstrates ENV's continued progress in updating its models and implementing improvements to the wastewater system. |
| OTHER REVISIONS OF NOTE | | | | |
| 59. | | HART | As a result of value engineering, HART is not planning to provide a station entrance/exit on the makai side of Dillingham Boulevard at the Kapalama station in the near term. | The Plan has been revised to reflect the latest Kapalama station layout. |

Comment Sheet

KALIHI Neighborhood TOD Plan – Public Review Draft Comments and DPP Responses (November 2014)

| No. | Date | Commentor | Comment | Action |
|-----|------|----------------|---|--|
| 60. | | Internal Staff | The Public Review Draft did not propose a requirement for pedestrian-oriented design in areas around the Middle Street station. | The Plan has been amended to require pedestrian-oriented design and allow active frontages along Kamehameha Highway and Middle Street. |
| 61. | | Internal Staff | The Public Review Draft did not depict the existing multi-use path along the ewa side of Middle Street. | The Plan has been amended to show the existing path along Middle Street makai of the H-1 freeway. |
| 62. | | Internal Staff | | |
| 63. | | Internal Staff | The Public Review Draft referred to draft plans that have since been finalized. | The Plan has been updated to refer to the final Oahu Bike Plan and Statewide Pedestrian Master Plan. |
| 64. | | Internal Staff | | The Plan has been amended to add a policy about the provision of high-speed broadband internet access in the station areas to support economic development. |
| 65. | | Internal Staff | The Public Review Draft proposed minimum and maximum front yard requirements based on land use. However, the City will be pursuing setback requirements based on street type when the TOD zoning is proposed. | Specific front yard dimensions have been removed from the Plan. |
| 66. | | Internal Staff | The City is currently updating its open space/park dedication requirements in TOD areas. | Specific open space requirements (percentages) have been removed from the Plan. |
| 67. | | Internal Staff | The City has recently proposed new inclusionary housing requirements for all new development on Oahu. | The Plan has been amended to remove the proposed affordable housing requirements (percentages). Language has also been added to encourage rental affordable units. |
| 68. | | Internal Staff | | The Plan has been amended to add a section on property tax incentives to Chapter 6. |
| 69. | | Internal Staff | The Public Review Draft listed Project Advisory Committee members by name in Appendix B. | The Plan has been amended to list only the organizations that have been represented on the Project Advisory Committee. |

Executive Summary Booklet

City and County of Honolulu



Kalihi

Neighborhood Transit-Oriented Development Plan

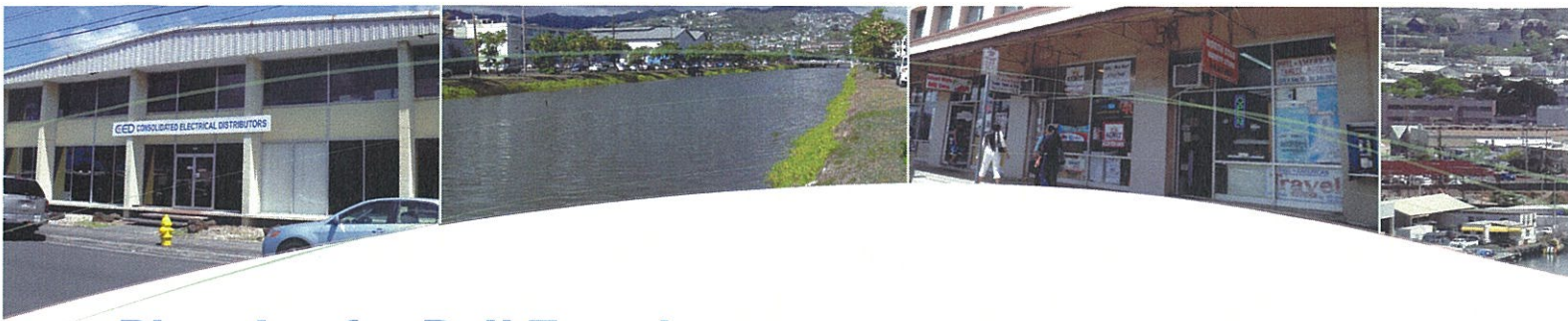
Executive Summary

November 2014

As most transit trips begin and end as walking trips, the area within easy walking distance of a transit station is where development opportunities can take advantage of and encourage transit ridership. Such transit-oriented development (TOD) may be the redevelopment of existing facilities or new development and should be designed with an emphasis at the pedestrian scale—mixing residences, employment, shopping, and services.

TOD
HONOLULU

Live. Work. Connect



Planning for Rail Transit

What is Honolulu Rail Transit?

The Honolulu Rail Transit system will serve 21 stations between East Kapolei and Ala Moana Center. Over 60% of Oahu's population currently lives within this transit corridor, and the population in the corridor is projected to continue to grow faster than the rest of Oahu.

Rail transit provides an opportunity to help reduce the growth of traffic congestion by taking cars off the road; improve travel reliability; shorten travel times for most riders between home and work; and increase transportation options by transit, bicycle, and on foot.



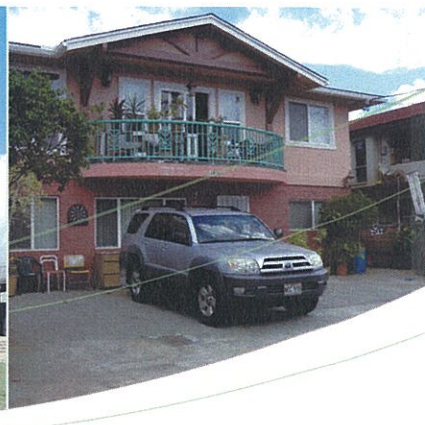
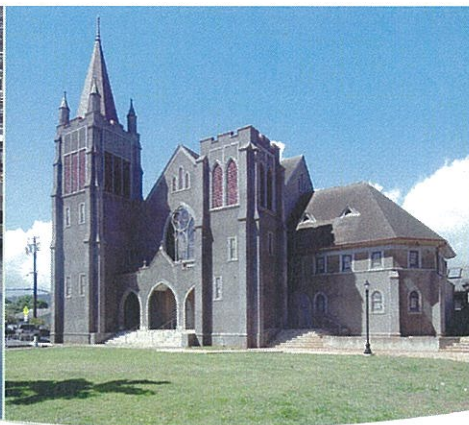
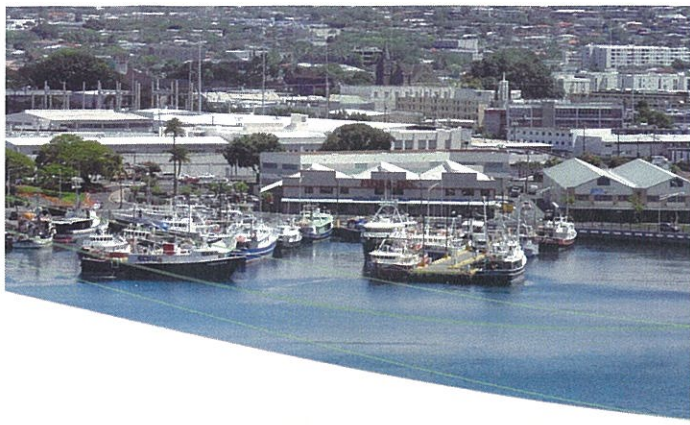
How Can We Prepare for It?

The Department of Planning and Permitting is currently preparing neighborhood transit-oriented development (TOD) plans to help integrate land use and transportation planning around the rail stations in anticipation of the rail project completion in 2019. The plans address opportunities for new development and orderly growth and improved accessibility around the stations.

Each plan begins by looking at lands within one-half mile of the proposed transit stations. Land use, mobility, urban form and open space elements are addressed in every plan but result in different outcomes in different neighborhoods, including TOD district boundaries that relate to topographic and other physical parameters.

Successful TOD depends on participation and support from government, residents, businesses, community organizations, landowners, developers, and the financial sector. Good TOD projects increase transit ridership and respond to community concerns, needs and goals.

Each community must determine what type of TOD will work best given its specific assets, growth and population trends, transportation, infrastructure, and social needs. Development happens as the result of private investment. The role of government is to provide the policy ground rules, define and offer strategic incentives, ensure that adequate infrastructure is available, and engage the community in helping direct private investment into public benefit.



The Kalihi Neighborhood TOD Plan

What are the Objectives of the Plan?

The Kalihi corridor includes the Kapalama, Kalihi, and Middle Street station areas. It hosts a range of small commercial and industrial businesses and is home to long-time residents and newcomers. The Kalihi Neighborhood Transit-Oriented Development (TOD) Plan articulates a vision for the future of the Kalihi corridor and will guide its development over the next era of the city's growth. It will enhance transit access and walkability by enabling more people to live and work within walking distance of a rail station.

The Plan envisions more diverse housing and employment opportunities, new shopping and services, reinvigorated educational centers, and a new mixed-use neighborhood in Kapalama. New open spaces and a new promenade along Kapalama Canal will enhance livability. A more connected circulation network in the Kapalama station area, as well as improved accessibility within the Middle Street station area, will help residents, workers, and tourists access key destinations, residences, and jobs.

PROJECT TIMELINE



How Was the Plan Developed?

The planning process for the Kalihi corridor has involved community workshops, Advisory Committee meetings, and a community needs survey.

Beginning in December of 2010, the planning process included identification of issues and opportunities, a market study, the creation of alternatives, and development of preferred station area plans. The Kalihi Neighborhood TOD Plan also includes recommendations on phasing, implementation, and revisions to the Land Use Ordinance (LUO), including TOD special district regulations.

The Kalihi Neighborhood TOD Plan builds upon the recommendations of the Kalihi-Palama Action Plan and the Primary Urban Center Development Plan.



COMMUNITY VISION:

Kalihi will be a livable urban quality transit access and reflect the area's central location and rich cultural heritage. shop for basic goods near their homes, and community members enjoy access to good Revitalized districts in strategic locations, particularly around Kapalama Station, will and its natural resources. The community's ethnic, income, age, and small business diversity opportunities. The corridor's assemblage of varied districts—Kapalama, Kalihi, and

Guiding Principles for Kalihi Neighborhood

1. Revitalize Kalihi into a More Livable Community



Promote redevelopment/re-use depending on the unique conditions around each station. Invest in the community by enhancing existing facilities and encouraging new development that supports the community vision and capitalizes on transit access.

2. Maintain and Enhance Diversity

Enhance the unique character of Kalihi including its multiple ethnicities, multigenerational households, small “mom and pop” businesses, mix of uses, and housing affordability. Address concerns about maintaining the affordability of housing, small businesses, and industrial/warehouse uses.



3. Improve the Quality of Public Spaces



Integrate the rail stations into their surroundings; improve overall streetscapes, including sidewalk improvements/provision, trees and landscaping, new streets to provide better walking connections (particularly mauka-makai connections), and undergrounding of utilities; provide safe and accessible parks and open spaces.

community with a balance of employment, residential, and recreational uses that enjoy high-Neighborhoods will be pedestrian- and transit-friendly, where children walk to school, parents jobs, good food, safe streets, and quality open spaces, housing, and services. capitalize on the presence of Honolulu Community College, the area's proximity to Downtown, is maintained and enhanced through a variety of housing, commercial, education, and economic Middle Street—will retain unique identities as they develop and evolve.

4. Improve Connections to the Waterfront

Improve access to Sand Island recreational areas and Keehi Lagoon Park from the Middle Street Transit Center and enable safe and comfortable pedestrian crossing of Nimitz Highway. Enable pedestrian and bicycle access and views of the waterfront, where feasible.



5. Create a Convenient and Accessible Transportation Network



Create a convenient transportation system that integrates bus and rail transit, bicycle facilities, pedestrian connections, and adequate off-street parking. Provide a consistent set of amenities in and around each rail station (e.g. adequate lighting, bicycle parking) to ensure safety and meet basic service needs.

6. Increase Public Safety

Add lighting, find solutions for the homeless population, abate graffiti, encourage new residential and active uses that provide “eyes on the street,” and offer programs for youth to ensure that community members feel safe and that streets are clean and attractive.



Community Character

The TOD Plan Concept Map illustrates the vision and guiding principles for the Plan, including generalized land uses, conceptual park locations, key destinations, neighborhood structure, and connections. The proposed land uses, which are described in detail in the Plan, would provide the foundation for development around the three Kalihi corridor stations.

Middle Street Station Area

The Middle Street area becomes a major multi-modal hub where residents can transfer from bus to rail to get Downtown, to the airport, and to other destinations along the rail line. Vital commercial and industrial uses are preserved makai of Nimitz Highway, while streetscape enhancements and improved connections to Keehi Lagoon Park will make the area more walkable and accessible. In the long term, the Plan envisions a revitalized medium-intensity mixed-use district Diamond Head of the station near a transformed Oahu Community Correctional Center.

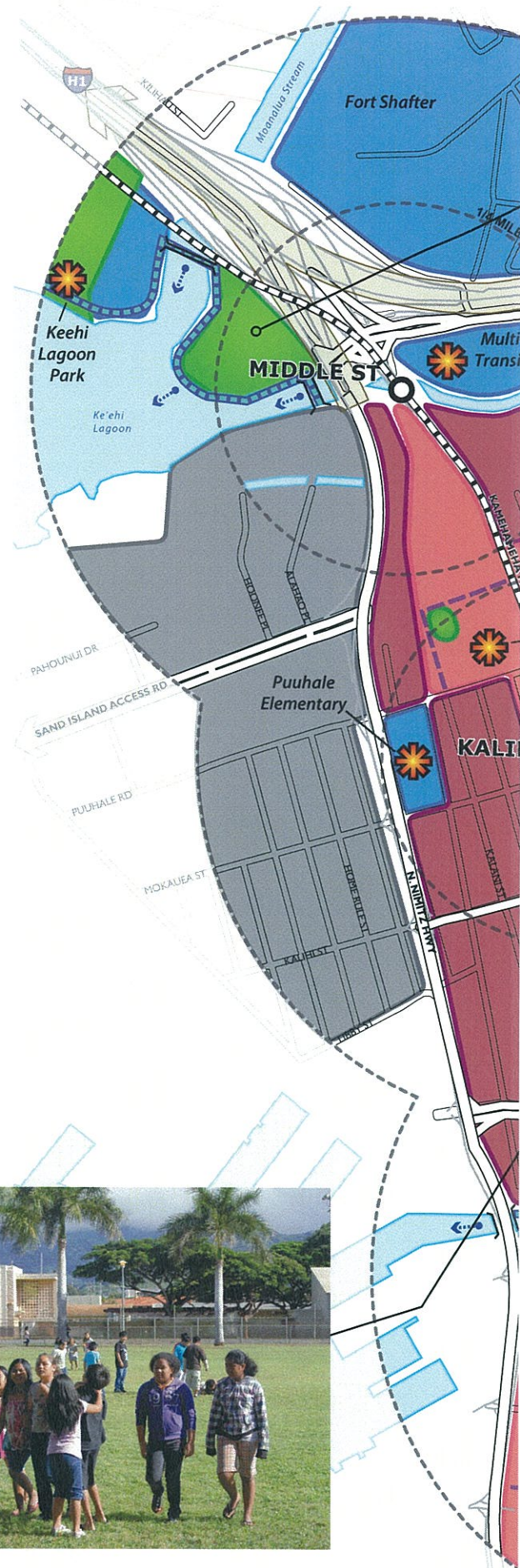
Mixed-use designations accommodate a range of uses, including residential, shopping, employment, and community services, that support neighborhood vibrancy at various times of the day and week.

Kalihi Station Area

While the scale and character of the Kalihi area will be maintained, a greater mix of uses will be permitted along Dillingham Boulevard and “active” frontages will be required along many blocks in order to provide transit riders with an array of shopping and services. New higher-density infill housing and rehabilitation of units in disrepair will be encouraged in the residential areas, and new uses and public services will accommodate the needs of seniors, children, and families.

Kapalama Station Area

The Kapalama station area will see the greatest transformation as the Plan approaches buildout. A new high-intensity mixed-use district will add residences, public facilities, and neighborhood shopping, with the tallest heights and highest building intensities surrounding the station. New streets and pathways will break up the large blocks to provide better access to the station, to Iwilei and Downtown, and to a new linear park/promenade along Kapalama Canal that will serve as a major open space in the area.



Existing neighborhoods are a major focus of the Kalihi Neighborhood TOD Plan. The Plan preserves the neighborhoods' existing assets while targeting sites for revitalization to ensure safety and capitalize on rail access.

TOD Zoning

The Kalihi Neighborhood TOD Plan serves as the basis for TOD zoning proposals. Existing zoning regulations will be modified or replaced based on recommendations contained in the TOD Plan.

Recommendations include:

Land Uses

In most areas, the TOD zoning will allow uses similar to the BMX-3 Community Business Mixed-Use District, allowing for a range of office, retail, business services, as well as multifamily dwellings. Where industrial mixed-use is proposed, the zoning will allow uses similar to the IMX-1 Industrial-Commercial Mixed Use District, allowing light industrial, commercial uses, and limited residential.

Building Heights & Density

Height limits (shown at right) vary based on existing land use patterns, community objectives, and market considerations. Maximum floor area ratios (FAR) in the Plan range from 1.0 to 4.5.

Affordable Housing

For residential projects with ten or more units, affordable housing requirements are recommended, with an emphasis on rental housing.

Parking

The Plan recommends reducing parking requirements across the board, allowing exemptions in certain situations, and requiring bicycle parking.

Yards

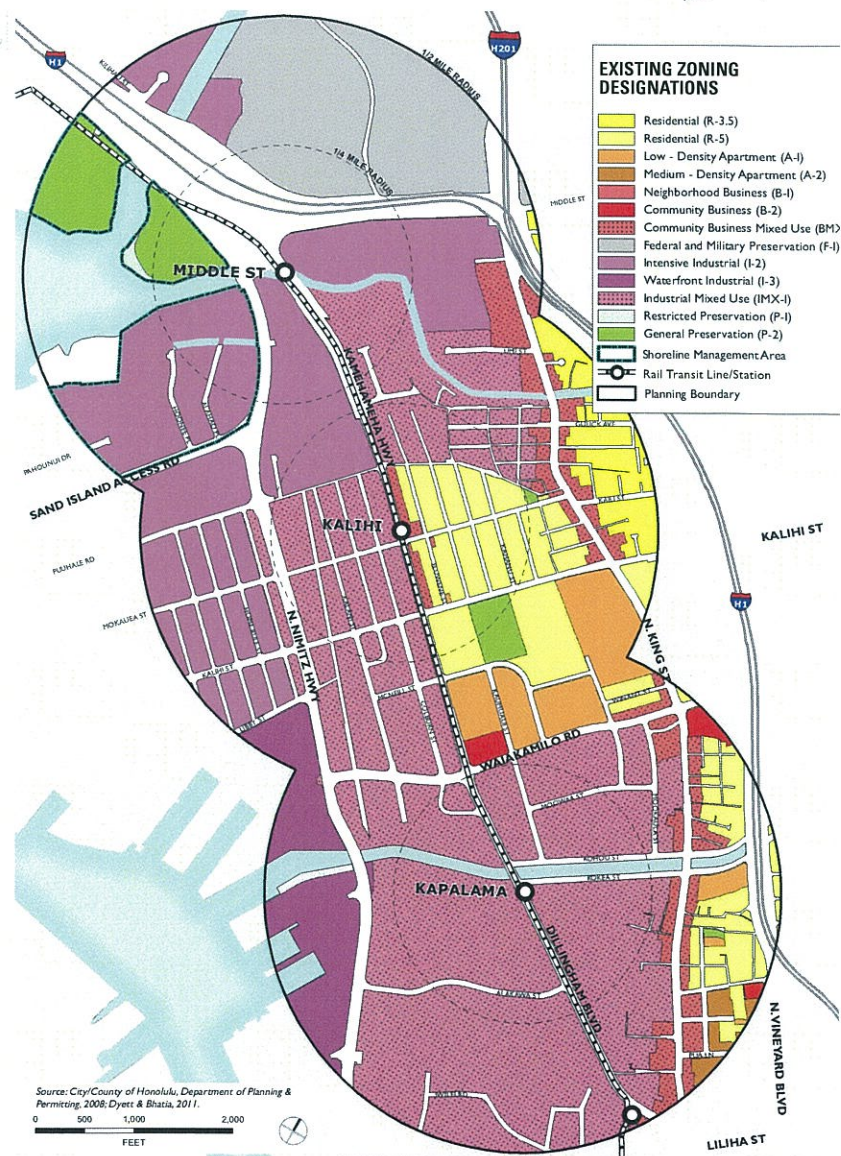
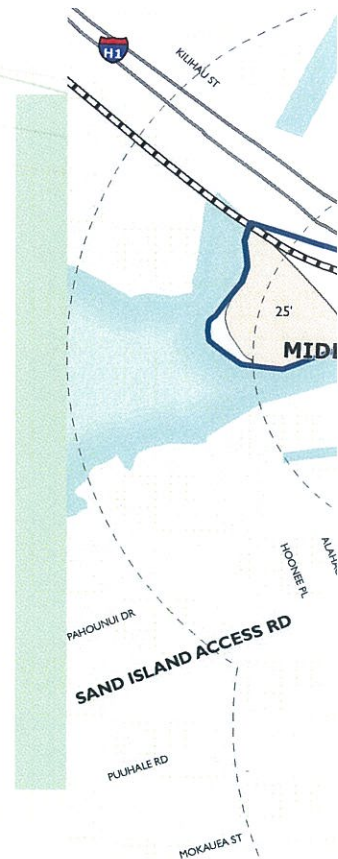
Yards should contribute to an active, pedestrian-oriented environment. Establishing maximum front setbacks would place building facades close to the sidewalk and help create outdoor “rooms” that include the street.

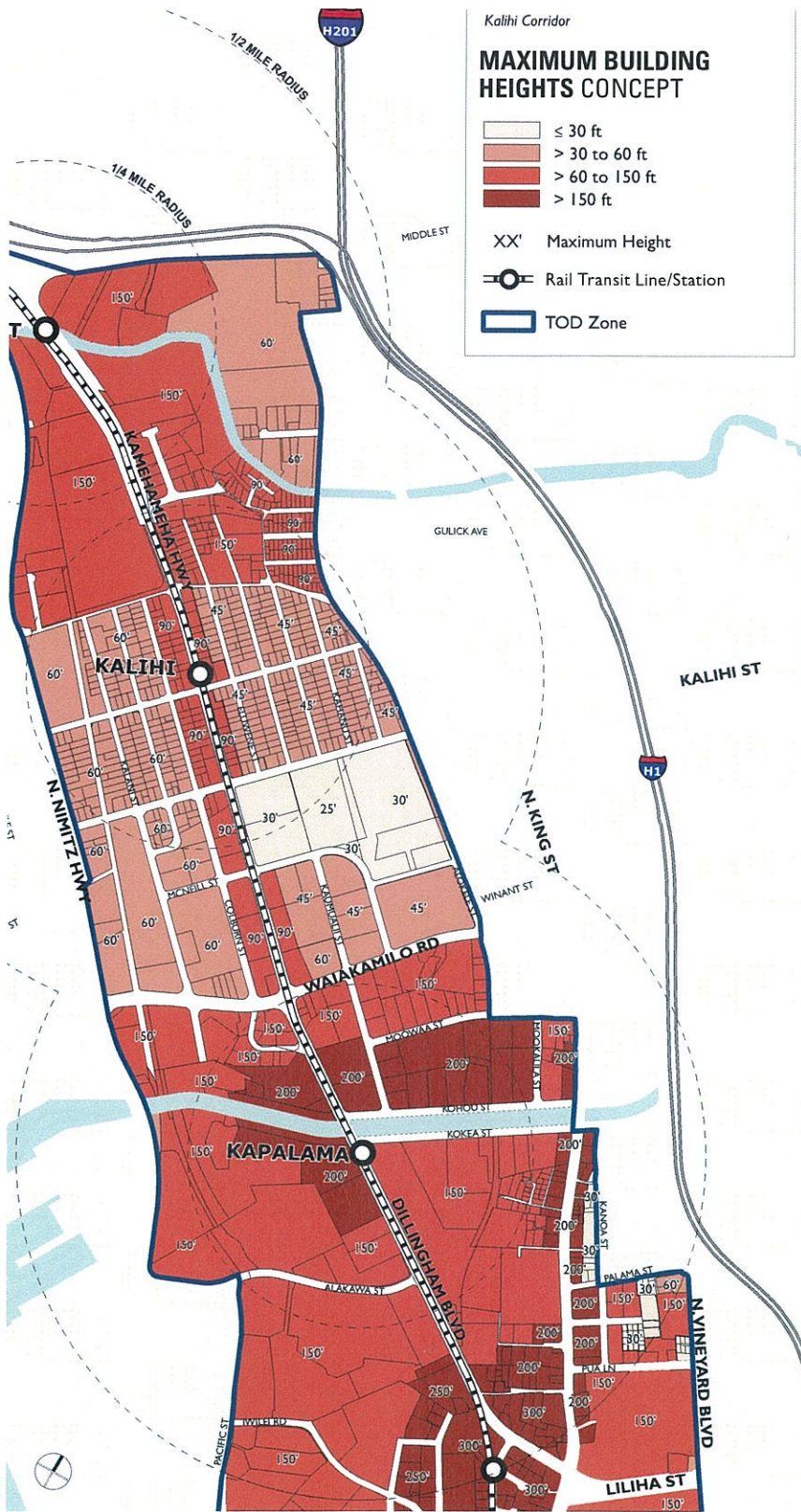
Publicly Accessible Open Space

New developments on parcels of 20,000 square feet or larger should provide publicly accessible plazas or parks or contribute an equivalent value toward public park improvements within the station area.

Building Design

The ground floors of buildings should be designed at the pedestrian scale and provide transparent storefronts to activate street frontages.



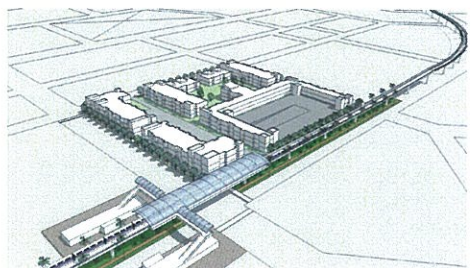
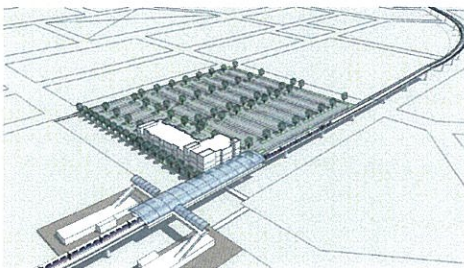


The Kalihi Neighborhood TOD Plan defines a future for the rail station areas with increased community amenities triggered by new investment. Many of these amenities (described throughout the TOD Plan and highlighted on pages 10-13) can be developed by the private sector. In return for development bonuses, a project can incorporate any number of these amenities within the project, or off-site within the station areas, to help support community values and goals. The likely development bonus would be higher building heights, or it could be higher density (floor area) or less required parking.

Phasing

The sketches below are illustrative and intended to show that TOD does not occur overnight; rather it matures and evolves over time. The actual sequencing of development depends on numerous factors, including the real estate market, the availability of financial incentives, and the interest of individual property owners. It will take several decades, even generations, for full “build-out.”

The first phase is the construction of the train station and complementary changes in bus routes. The first developments are likely to be very close to the stations and on a larger property. Later phases will see additional infill development, including more outlying and smaller properties. With less parking needed, surface parking lots are replaced with mixed-use buildings and parking garages to support the new uses.





Streets & Transportation

The Kalihi Neighborhood TOD Plan recommends creating an integrated and convenient multimodal circulation network that emphasizes transit and pedestrian movement. Improvements are located primarily within the TOD Zone—an area that encompasses most of the corridor’s sites with development or redevelopment potential, and the area where special district regulations will apply. The foundation of this network is local streets, which will be designed and maintained to accommodate all users, consistent with the City’s Complete Streets policy. The TOD Plan identifies potential locations for new local streets that provide the neighborhood’s basic transportation and open space framework and improve access to stations and existing and future development. Proposed streets are primarily located in the Kapalama station area to provide better access to and within the proposed mixed-use district.

In addition to local streets, the TOD Plan identifies a range of improvements to pedestrian and bicycle facilities within the station areas. These elements enhance neighborhood accessibility, attractiveness, and safety while also expanding mobility options and reducing reliance on vehicles for all trips. In the Kalihi station area, many of the streets are

identified to be designed as “living streets,” in which they balance the needs of parking, vehicle access, and pedestrian and bicycle safety through traffic-calming techniques rather than through standard sidewalk and curb construction.

Waterfront Promenade

A promenade is proposed along both banks of Kapalama Canal and along Keehi Lagoon, east of the Middle Street station. With consistent landscaping and improved pedestrian access, the promenades would provide a recreational feature that is attractive, peaceful, and directly accessible by rail. The promenades would also enhance non-vehicular access to two major community facilities—the Community College and Keehi Lagoon Park.

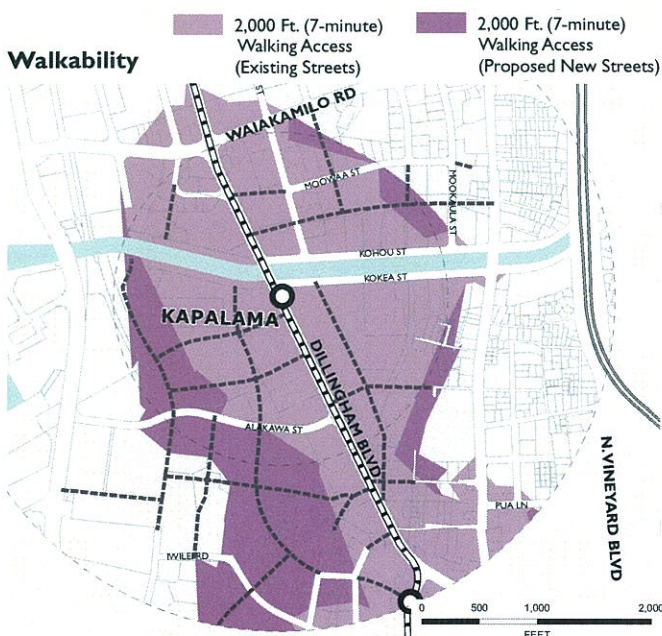
Walkable and bikable communities not only enhance livability, but also support increased transit ridership.

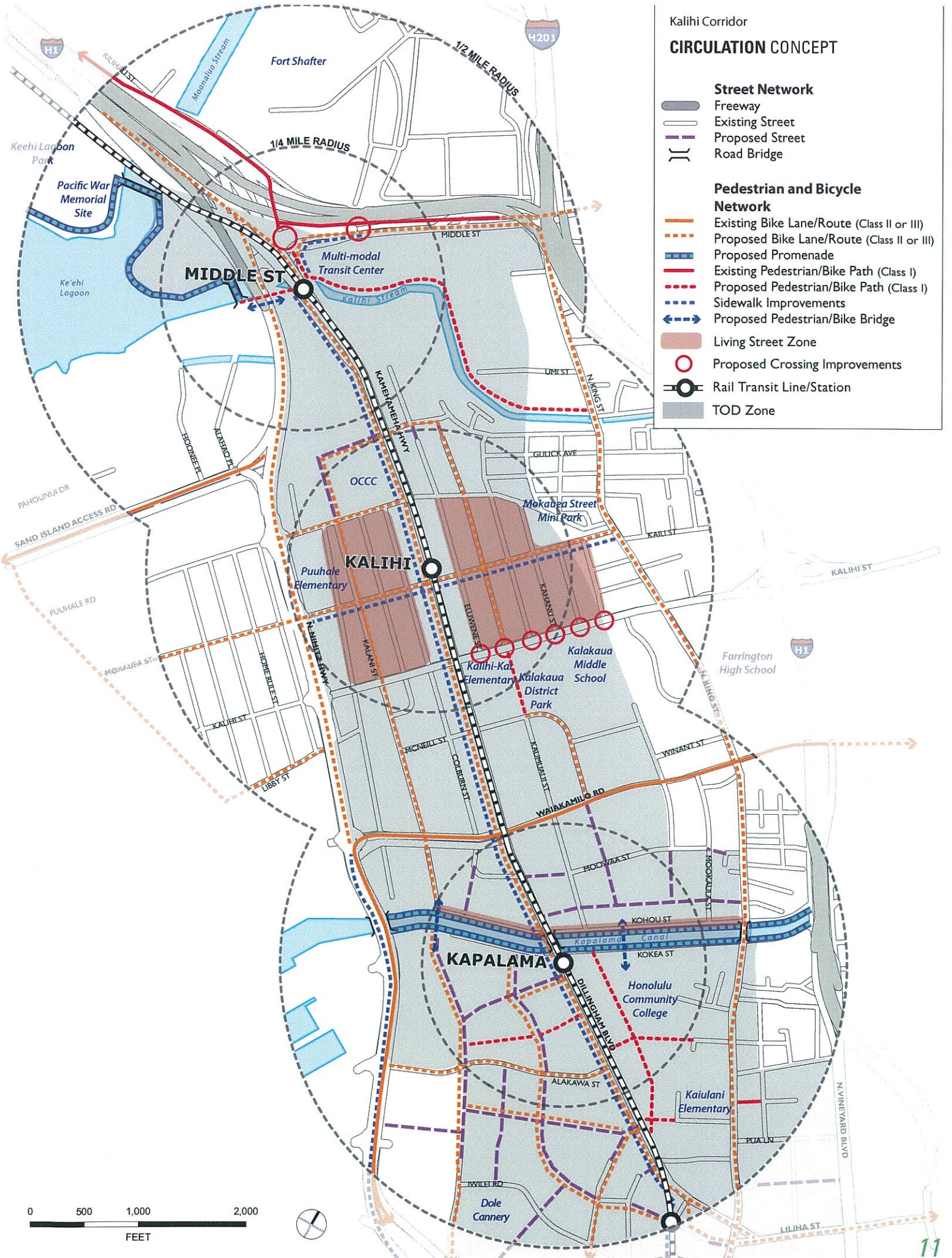
Bicycle Facilities

The Plan’s recommended bicycle routes, lanes, and paths (see Circulation map at right) efficiently and safely connect bicyclists to the rail stations, to destinations within the Kalihi and Downtown corridors, and to the regional bike network. Building on the Oahu Bike Plan, this plan designates new bicycle facilities within the corridor as well as new bicycle routes and lanes on proposed streets and on the waterfront promenades.

Sidewalk and Crossing Improvements

The Plan recommends a number of specific pedestrian improvements. These include installing or widening sidewalks or striping where appropriate, particularly along Dillingham Boulevard and Mokauea Street; adding lighting, shade trees, street furniture, directional signage, and other pedestrian amenities; new pedestrian bridges across Kapalama Canal; and improving crosswalks, particularly across Kalihi and Middle Streets.





Kalihi Corridor

CIRCULATION CONCEPT

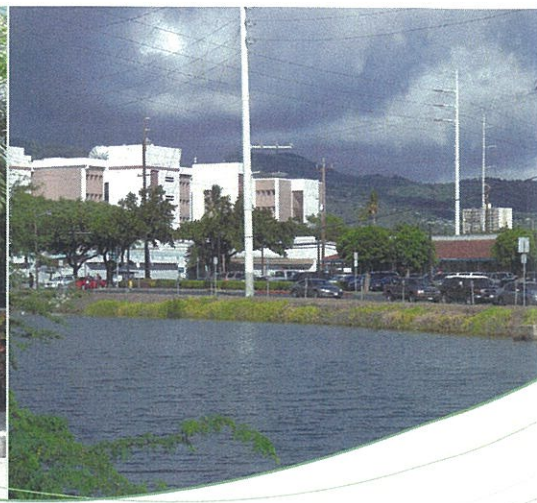
Street Network

- Freeway
- Existing Street
- Proposed Street
- Road Bridge

Pedestrian and Bicycle Network

- Existing Bike Lane/Route (Class II or III)
- Proposed Bike Lane/Route (Class II or III)
- Proposed Promenade
- Existing Pedestrian/Bike Path (Class I)
- Proposed Pedestrian/Bike Path (Class I)
- Sidewalk Improvements
- Proposed Pedestrian/Bike Bridge
- Living Street Zone
- Proposed Crossing Improvements
- Rail Transit Line/Station
- TOD Zone

0 500 1,000 2,000
FEET



Urban Design

Urban design determines the character, feel, and livability of an area. The Kalihi Neighborhood TOD Plan addresses physical urban design elements such as buildings, blocks, and streets, as well as the location, orientation and design of open space, the pedestrian realm, and landscaping elements. The basic elements of urban design that the Plan proposes relate to the public realm and open space, such as parks and plazas.

A well-defined and well-designed sidewalk edged with active uses, like retail and community services, creates a comfortable pedestrian experience.

Public Realm

Defined as the space between buildings, including the street, the public realm is integral to users' experience in an urban area. The Plan provides policies to inform the design of, among other elements, sidewalk and streetscapes, building façades and massing, and parking. Its goal is to create memorable and livable streets and streetscapes that promote identity and enhance pedestrian comfort and safety.

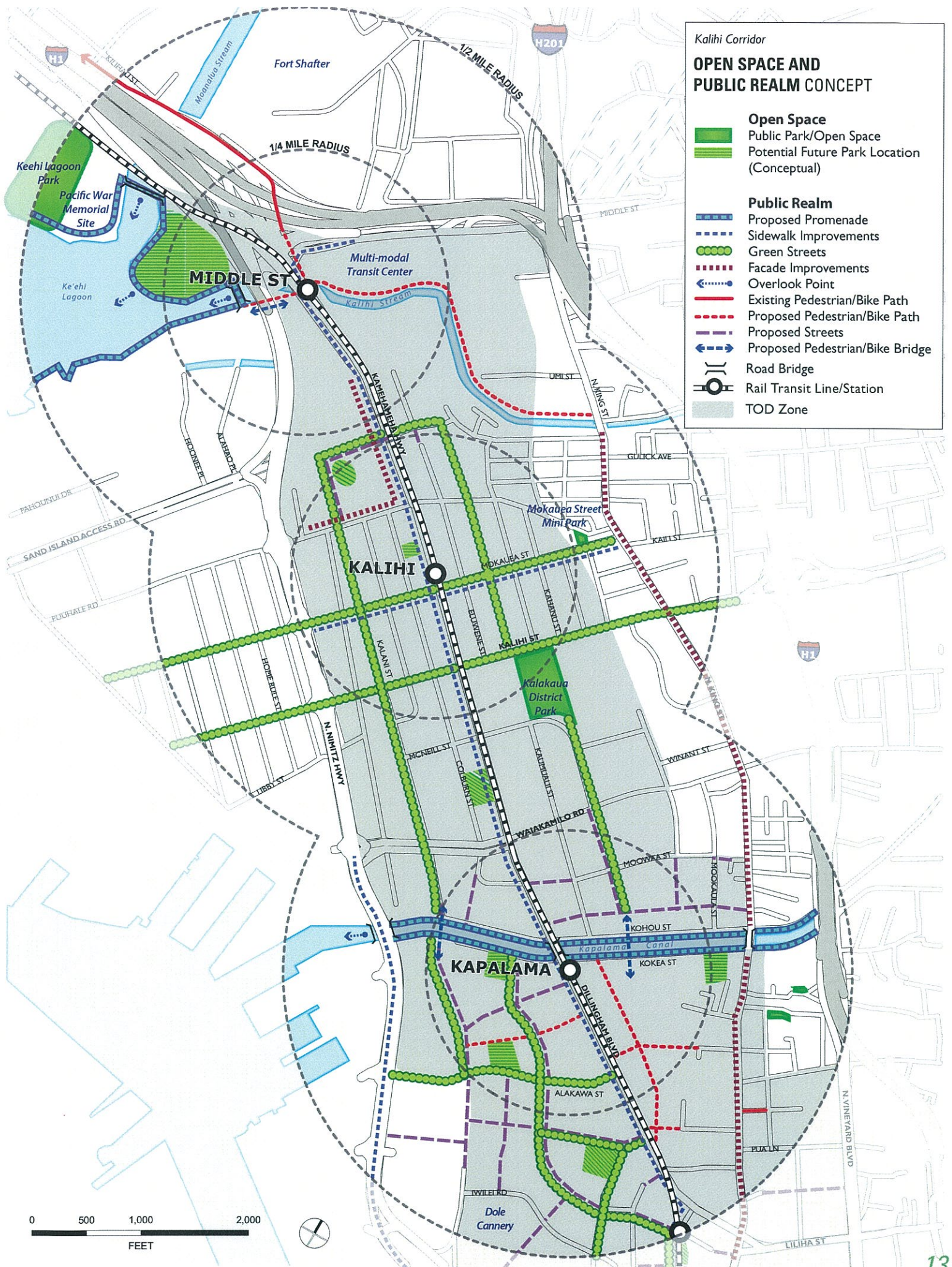
Open Space

The Plan proposes several new parks and open spaces, and green connections between them. The mapped locations are suggestive and not site specific. These spaces, which will help to balance the density of development, include:

- **Community parks** that offer a range of recreation opportunities and amenities.
- **Small urban parks and plazas**, including public/private spaces developed as part of new developments, that provide space for rest and shade.
- **"Green Streets"** that connect existing and planned open spaces to create an open space network and highlight views. Green Streets are characterized by a regular spacing of large shade-providing street trees on both sides of the street.
- **Promenades** along Kapalama Canal and Keehi Lagoon, which provide opportunities to walk, bike, and sit along the waterfront, as well as a pleasant way to access the stations and major community facilities.

Below: Conceptual illustration of an improved Kapalama Canal, serving as a gathering place for nearby workers, residents, and college students.





How and When Will the Plan be Implemented?

The Plan works together with the City's other regulatory documents, including the Land Use Ordinance, to outline the vision, policies, and specific regulations for new development, while providing enough flexibility to allow land owners and applicants to make decisions based on market demands and economic conditions. It is anticipated that most new development and support infrastructure will be privately funded. Some development may take place

in the short-term in advance of or soon after the rail is fully operational in 2019; other development projects and improvements may take as many as 20 or 30 years to come to fruition. The City is preparing zoning regulations that will create a TOD Special District to explicitly promote TOD and help implement the Plan's vision. In addition, the Plan suggests funding mechanisms and priorities for regional support infrastructure.

Next Steps

The following steps should be taken in the near-term in order to put the Kalihi Neighborhood TOD Plan into action and ensure that future TOD and neighborhood improvements follow the vision and principles defined by the community.

- Acceptance of the Kalihi Neighborhood TOD Plan by the City Council
- Adoption of the Kalihi Neighborhood TOD Special District zoning regulations
- Identification of incentives and funding sources at the City, State and federal levels
- Partnerships with property owners interested in redeveloping according to the Plan
- Identification and advancement of short-term (3-5 years) public improvement projects in the station areas

For More Information on the City's TOD Program:

Please visit www.todhonolulu.org or call 768.8000

Follow us on Facebook at www.facebook.com/TODHonolulu



Ordinance 09-4



A BILL FOR AN ORDINANCE

RELATING TO TRANSIT-ORIENTED DEVELOPMENT.

BE IT ORDAINED by the People of the City and County of Honolulu:

SECTION 1. Findings and Purpose.

The council finds that Honolulu has initiated a major mass transit project that has the potential to fundamentally reshape the form and character of Honolulu. The council has selected a fixed guideway system and the Locally Preferred Alternative ("LPA") for the project under Ordinance 07-01.

A vital part of the mass transit project is the opportunity to develop and redevelop key areas of Honolulu to provide additional housing and work opportunities in our growing island. These efforts will allow the city to continue its goal of directing new growth to designated areas while "keeping the country, country." Appropriate transit-oriented development ("TOD") land use regulations along the alignment and around the rapid transit stations will be crucial for these efforts and goals.

It has been consistently noted about successful TOD programs of other cities that community-based input is an important element of TOD programs, and that one specific set of regulations cannot adequately address TOD needs and opportunities across all transit stations. Therefore, to assure that Honolulu will have a successful TOD program, a general land use scheme must be created that provides for a deliberate, inclusive process to plan for TOD so that well-defined, meaningful, and appropriate regulatory and incentive programs can be adopted for each area around a transit station or type of station.

This TOD planning and implementation process will implement the Oahu General Plan and applicable regional development plans. Specifically, it will help stem urban sprawl across the city's agricultural and open space lands; encourage the development of livable, walkable communities; and increase transit ridership, thereby promoting the economic, social, and environmental well-being of the city.

With the potential for such a significant and positive change in development patterns, it is crucial that proper planning guidance be given, well before the transit stations are constructed. This will allow for timely community input and to put into place appropriate regulations for TOD before redevelopment occurs.

The council, therefore, finds that to protect the public interest and welfare, the Land Use Ordinance is to be amended to provide guidance on how to determine zoning



A BILL FOR AN ORDINANCE

regulations for areas around each transit station. The planning process shall be open, inclusive and visionary, and shall strive to increase the quality of life through rejuvenated community character, preservation and enhancement of historic, cultural, scenic, natural and other community resources and landmarks, while understanding the relationship between zoning, financing, and real estate market dynamics.

Pursuant to this ordinance, the council will establish special districts around rapid transit stations, to be known as Transit-Oriented Development Zones, to foster more livable communities that take advantage of the benefits of transit: specifically, reducing transportation costs for residents, businesses, and workers. While taking advantage of more efficient use of land, TOD can provide more walkable, healthier, economically vibrant communities, safe bicycling environments, convenient access to daily household needs as well as special events, and enhancement of neighborhood character, while increasing transit ridership. However, TOD should avoid loss of existing affordable housing and gentrification of communities.

SECTION 2. Section 13-9.3, Revised Ordinances of Honolulu 1990, as amended, is repealed.

"[Sec. 13-9.3 Transit oriented development ordinance.

As used in this article, "transit oriented development ordinance" ("TOD ordinance") means an amendment to the land use ordinance regulating development at and around transit stations. The TOD ordinance shall:

- (1) Enable a mix of land uses;
- (2) Enable higher densities;
- (3) Eliminate or reduce minimum off-street parking requirements for such development;
- (4) Encourage travel by rail transit, buses, walking, bicycling, and other nonautomobile forms of transport;
- (5) Encourage development of a mixture of market-rate and affordable housing;
- (6) Encourage public-private partnerships in such development;



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- (7) Utilize form-based zoning, exemptions, or other alternatives from existing development regulations, and utilize other incentives to encourage such development;
- (8) Encourage activity at a defined community center; and
- (9) Encourage public input in the design of each transit station so each station reflects unique community design themes, history, or landmarks.]”

SECTION 3. Chapter 21, Article 9, Revised Ordinances of Honolulu 1990, as amended, is amended by adding a new Section 21-9.100 and accompanying Sections 21-9.100-1, -2, -3, and -4, to read as follows:

“Sec. 21-9.100 Transit-oriented development (TOD) special districts.

- (a) The purpose of this section is to establish a procedure for the establishment of special districts known as TOD Zones around rapid transit stations to encourage appropriate transit-oriented development.
- (b) The regulations applicable to a TOD Zone shall be in addition to underlying zoning district and, if applicable, special district, regulations, and may supplement and modify the underlying regulations. Where a transit station is located within or adjacent to an existing special district, the TOD Zone provisions may be incorporated in the existing special district provisions. If any regulation pertaining to a TOD Zone conflicts with any underlying zoning district or special district regulation, the regulation applicable to the TOD Zone shall take precedence.
- (c) As used in this section:

“TOD” means transit-oriented development.

“TOD Development Regulations” means the regulations establishing the permitted uses and structures and development standards within a TOD Zone, which shall be established by the council by ordinance, pursuant to the provisions of this section. TOD Development Regulations shall be specific to each TOD Zone and may include both zone and sub-zone specific provisions.

“TOD Zone” means the parcels of land around a rapid transit station subject to the TOD Development Regulations. Generally, the TOD Zone shall include the parcels of land where any portion of each parcel is within 2,000 feet of a transit station, provided



A BILL FOR AN ORDINANCE

that for any such parcel, the entire parcel must be within one mile of the transit station; provided further that the council, by ordinance, may include or exclude any parcel from the TOD Zone either upon its own initiation or upon written request of the director.

Sec. 21-9.100-1 Creation of TOD Development Regulations.

For each TOD Zone, a set of TOD Development Regulations shall be created to foster and encourage transit-oriented development and redevelopment of such TOD Zone. The TOD Development Regulations shall include the minimum requirements in Section 21-9.100-4, and may include any other provisions, incentives and restrictions.

Prior to January 1, 2010, the TOD Development Regulations for each TOD Zone may be based on a neighborhood plan that addresses transit-oriented development ("neighborhood TOD plan"). The plans may include more than one station, and may address other community concerns and opportunities. On or after January 1, 2010, the council may initiate proposed ordinances establishing a TOD Zone and TOD Development Regulations applicable thereto where no neighborhood TOD plan has been adopted; provided, however, that there shall be a recognition that the use of neighborhood TOD plans shall be the preferred way to create TOD Development Regulations for each TOD Zone and amendments to the Development Regulations should be considered upon the completion of a neighborhood TOD plan.

Sec. 21-9.100-2 Neighborhood TOD plans.

- (a) For each TOD Zone, the department shall prepare a neighborhood TOD plan which serves as the basis for the creation or amendment of a TOD Zone and the TOD Development Regulations applicable thereto. Each neighborhood TOD plan shall address, at minimum, the following:
- (1) The general objectives for the particular TOD Zone in terms of overall economic revitalization, neighborhood character, and unique community historic and other design themes. Objectives shall summarize the desired neighborhood mix of land uses, general land use intensities, circulation strategies, general urban design forms, and cultural and historic resources that form the context for TOD.
 - (2) Recommend parcels to be included in the TOD Zone, taking into account natural topographic barriers, extent of market interest in redevelopment, and the benefits of transit including the potential to increase transit ridership.



A BILL FOR AN ORDINANCE

- (3) Recommended zoning controls, including architectural and community design principles, open space requirements, parking standards, and other modifications to existing zoning requirements, or the establishment of new zoning precincts, as appropriate, including density incentives. Prohibition of specific uses shall be considered. Form-based zoning may be considered.
- (4) Preservation of existing affordable housing and potential opportunities for new affordable housing, and as appropriate, with supportive services.
- (5) Avoid gentrification of the community.
- (6) General direction on implementation of the recommendations, including the phasing, timing and approximate cost of each recommendation, as appropriate, and new financing opportunities that should be pursued.
- (b) The process of creating neighborhood TOD plans shall be inclusive, open to residents, businesses, landowners, community organizations, government agencies, and others.
- (c) The process shall consider population, economic, and market analyses and infrastructure analyses, including capacities of water, wastewater, and roadway systems. Where appropriate, public-private partnership opportunities shall be investigated.
- (d) The neighborhood TOD plan shall be consistent with the applicable regional development plan.
- (e) To the extent practical, the neighborhood TOD plan shall be consistent with any applicable special area plan or community master plan, or make recommendations for revisions to these plans.
- (f) The neighborhood TOD plan shall be submitted to the council and approval of the plan shall be by council resolution, with or without amendments.

Sec. 21-9.100-3 Processing of proposed ordinances establishing TOD Zones and the TOD Development Regulations applicable thereto.

- (a) If the council approves a neighborhood TOD plan, with or without amendments, the director shall, within 120 days after the approval, submit to the planning



A BILL FOR AN ORDINANCE

commission a proposed ordinance establishing a TOD Zone for the applicable neighborhood and the TOD Development Regulations applicable thereto.

- (b) If the council, pursuant to Section 21-9.100-1, initiates a proposed ordinance establishing a TOD Zone and the TOD Development Regulations applicable thereto where no neighborhood TOD plan has been adopted, the director shall, within 120 days after adoption of the resolution initiating the ordinance, submit to the planning commission a report accompanied by the proposed ordinance and any alternative ordinance proposed by the director. The provisions of Chapter 2, Article 24, relating to council proposals to amend the zoning ordinances and the processing thereof by the department, shall not apply to council proposals to establish a TOD Zone and the TOD Development Regulations applicable thereto.

The director may request, and the council may approve, a 60-day extension of the deadline to submit a report and proposed ordinance to the planning commission under the following procedure:

- (1) Within the existing deadline, the director shall submit to the council a request for an extension of the deadline and an interim report describing the status of the director's processing of the council proposal and the reasons that additional time is needed for processing.
- (2) The council may approve or deny the proposed extension by adoption of a committee report. If the council fails to take final action on the proposed extension within 45 days after receipt of the director's request, or the existing deadline, whichever occurs first, the extension shall be deemed denied.
- (3) If an extension of the deadline is approved by the council, the director may thereafter request subsequent extensions of the deadline in accordance with the procedure described above.

Sec. 21-9.100-4 TOD Development Regulations minimum requirements.

The TOD Development Regulations for each TOD Zone shall include, but not be limited to, the following provisions:

- (a) Allowances for a mix of land uses, both vertically and horizontally, including affordable housing.



A BILL FOR AN ORDINANCE

- (b) Density and building height limits that may be tied to the provision of community amenities, such as public open space, affordable housing, and community meeting space.
- (c) Elimination or reduction of the number of required off-street parking spaces, including expanded allowances for joint use of parking spaces.
- (d) Design provisions that encourage use of rapid transit, buses, bicycling, walking, and other non-automobile forms of transport that are safe and convenient.
- (e) Guidelines on building orientation and parking location, including bicycle parking.
- (f) Identification of important neighborhood historic, scenic, and cultural landmarks, and controls to protect and enhance these resources.
- (g) Design controls that require human-scale architectural elements at the ground and lower levels of buildings.
- (h) Landscaping requirements that enhance the pedestrian experience, support station identity, and complement adjacent structures.
- (i) Incentives and accompanying procedures, which may include minimum standards and financial incentives, to encourage appropriate and necessary transit-oriented development."

SECTION 4. Section 2-24.1, Revised Ordinances of Honolulu 1990, as amended, is amended to read as follows:

"Sec. 2-24.1 Applicability.

This article shall apply to council proposals to revise or amend:

- (1) The general plan;
- (2) A development plan;
- (3) The zoning ordinances[;], except as otherwise provided by Section 21-9.100-3(b); and
- (4) The subdivision ordinance."



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SECTION 5. Section 21-9.20-6, Revised Ordinances of Honolulu 1990, as amended, is amended to read as follows:

"Sec. 21-9.20-6 Conflicting regulations.

If any regulation pertaining to the special districts conflicts with any provision contained within Article 3, the more restrictive regulation shall take precedence[.]; provided, however, that this section shall not apply to TOD Development Regulations enacted pursuant to Section 21-9.100 and accompanying Sections 21-9.100-1, -2, -3, and -4, which shall take precedence in the event of conflict with any underlying Article 3 provision or special district regulation."

SECTION 6. Ordinance material to be repealed is bracketed. New material is underscored. When revising, compiling or printing this ordinance for inclusion in the Revised Ordinances of Honolulu, the revisor of ordinances need not include the brackets, the bracketed materials, or the underscoring.



CITY COUNCIL
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAII

ORDINANCE 09 - 4

BILL 10 (2008), CD2

A BILL FOR AN ORDINANCE

SECTION 7. This ordinance shall take effect upon its approval.

INTRODUCED BY:

Barbara Marshall (BR)

DATE OF INTRODUCTION:

February 14, 2008
Honolulu, Hawaii

Councilmembers

APPROVED AS TO FORM AND LEGALITY:

Don L. Kiteoka
Deputy Corporation Counsel

APPROVED this 25th day of March, 2009.

Mufi Hannemann
MUFU HANNEMANN, Mayor
City and County of Honolulu

CITY COUNCIL
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAII
CERTIFICATE

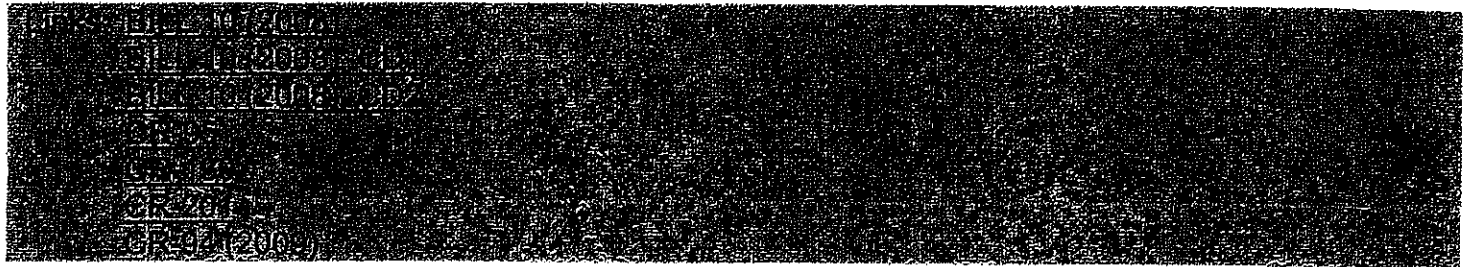
ORDINANCE 09 - 4

BILL 10 (2008), CD2
(ADMINISTRATION)

Introduced: 02/14/08 By: BARBARA MARSHALL (BR)

Committee: TRANSPORTATION &
PLANNING

Title: A BILL FOR AN ORDINANCE RELATING TO TRANSIT-ORIENTED DEVELOPMENT.

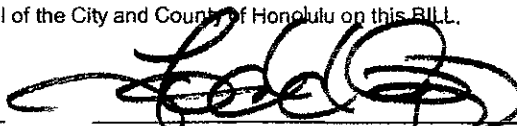


| | | | | | | |
|------------------------|-------------|--|-------------|--------|----------|--|
| COUNCIL | 02/20/08 | BILL PASSED FIRST READING AND REFERRED TO THE COMMITTEE ON EXECUTIVE MATTERS. | | | | |
| | APO Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | GARCIA E | |
| | KOBAYASHI Y | MARSHALL Y | OKINO Y | TAM Y | | |
| EXECUTIVE MATTERS | 04/02/08 | CR-95 - BILL REPORTED OUT OF COMMITTEE FOR PASSAGE ON SECOND READING AS AMENDED IN CD1 FORM. | | | | |
| COUNCIL | 04/16/08 | CR-95 ADOPTED AND BILL PASSED SECOND READING AS AMENDED (BILL 10 (2008), CD1) | | | | |
| | APO Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | GARCIA Y | |
| | KOBAYASHI Y | MARSHALL E | OKINO Y | TAM Y | | |
| EXECUTIVE MATTERS | 04/23/08 | CR-130 - BILL REPORTED OUT OF COMMITTEE FOR SCHEDULING OF A PUBLIC HEARING. (Current deadline for Council action: 5/13/08. 90-day extension of time requested) | | | | |
| PUBLISH | 04/23/08 | SECOND READING NOTICE PUBLISHED IN THE HONOLULU STAR BULLETIN. | | | | |
| PUBLISH | 04/26/08 | PUBLIC HEARING NOTICE IN THE HONOLULU STAR BULLETIN. | | | | |
| COUNCIL/PUBLIC HEARING | 05/07/08 | CR-130 ADOPTED, PUBLIC HEARING CLOSED AND REFERRED TO THE COMMITTEE ON EXECUTIVE MATTERS. (90-day extension of time granted. Deadline for Council action: 8/11/08) | | | | |
| | APO Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | GARCIA Y | |
| | KOBAYASHI Y | MARSHALL Y | OKINO Y | TAM Y | | |
| EXECUTIVE MATTERS | 05/14/08 | BILL DEFERRED IN COMMITTEE. | | | | |
| EXECUTIVE MATTERS | 06/25/08 | CR-201 - BILL DEFERRED IN COMMITTEE (Current deadline for Council action: 8/11/08. 120-day extension requested) | | | | |
| COUNCIL | 07/23/08 | CR-201 ADOPTED (120-day extension of time granted. Deadline for council action: 12/9/08) | | | | |
| | APO Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | GARCIA Y | |
| | KOBAYASHI Y | MARSHALL Y | OKINO Y | TAM Y | | |

| | | | | | | |
|-----------------------------|-------------|--|-------------|-------------|----------|--|
| EXECUTIVE MATTERS | 07/30/08 | BILL DEFERRED IN COMMITTEE. | | | | |
| EXECUTIVE MATTERS | 09/03/08 | BILL DEFERRED IN COMMITTEE. | | | | |
| EXECUTIVE MATTERS | 10/1/08 | BILL DEFERRED IN COMMITTEE. | | | | |
| COUNCIL | 12/03/08 | 120-DAY EXTENSION OF TIME GRANTED. DEADLINE FOR COUNCIL ACTION: 04/08/09 | | | | |
| | APO Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | GARCIA Y | |
| | KOBAYASHI Y | MARSHALL E | OKINO Y | TAM Y | | |
| | 01/05/09 | CC-002(09) BILL RE-REFERRED FROM EXECUTIVE MATTERS COMMITTEE TO TRANSPORTATION AND PLANNING COMMITTEE. | | | | |
| TRANSPORTATION AND PLANNING | 02/12/09 | BILL DEFERRED IN COMMITTEE. | | | | |
| | | NOTE: COUNCILMEMBER BARBARA MARSHALL PASSED AWAY ON SUNDAY, FEBRUARY 22, 2009. THE COUNCIL CONTINUES TO OPERATE IN ACCORDANCE WITH THE 9 MEMBERS IT IS ENTITLED TO PURSUANT TO SECTION 3-102, REVISED CHARTER OF THE CITY AND COUNTY OF HONOLULU 1973, AS AMENDED. | | | | |
| TRANSPORTATION AND PLANNING | 03/05/09 | CR-94 (2009) - BILL REPORTED OUT OF COMMITTEE FOR PASSAGE ON THIRD READING AS AMENDED IN CD2 FORM. | | | | |
| COUNCIL | 03/18/09 | CR-94 (2009) ADOPTED AND BILL PASSED THIRD READING AS AMENDED (BILL 10 (2008), CD2). | | | | |
| | APO Y | BAINUM Y | CACHOLA Y | DELA CRUZ Y | DJOU Y | |
| | GARCIA Y | OKINO Y | TAM Y | | | |

I hereby certify that the above is a true record of action by the Council of the City and County of Honolulu on this BILL.


BERNICE K. N. MAU, ACTING CITY CLERK


TODD R. APO, CHAIR AND PRESIDING OFFICER

Draft Resolution



RESOLUTION

APPROVING THE KALIHI NEIGHBORHOOD TRANSIT-ORIENTED DEVELOPMENT (TOD) PLAN.

WHEREAS, the Revised Ordinances of Honolulu (ROH) Sections 21-9.100 through 21-9.100-4 of the Land Use Ordinance, enacted by Ordinance 09-4, establish a procedure for the creation of special districts known as transit-oriented development (TOD) zones, and accompanying development regulations, around rapid transit stations to encourage appropriate transit-oriented development; and

WHEREAS, ROH Section 21-9.100-2 provides that for each TOD zone, a neighborhood TOD Plan shall be approved by the Council and shall serve as the basis for the creation or amendment of a TOD zone and the TOD development regulations applicable thereto; and

WHEREAS, plans for the Honolulu Rail Transit project call for three stations in Kalihi—one near the Middle Street Transit Center, one near Dillingham Boulevard and Mokauea Street (Kalihi station), and a third near the intersection of Dillingham Boulevard and Kokea Street (Kapalama station); and

WHEREAS, the Department of Planning and Permitting (DPP) and its consultant, Dyett & Bhatia Urban and Regional Planners, have prepared the Kalihi Neighborhood TOD Plan (November 2014) to serve as the basis for the creation of TOD zones around the Middle Street, Kalihi, and Kapalama rail transit stations; and

WHEREAS, the process of creating the Kalihi Neighborhood TOD Plan was inclusive, open to residents, businesses, landowners, community organizations, government agencies, and others; and

WHEREAS, the process considered population, economic, and market analyses and infrastructure analyses, including capacities of water, wastewater, and roadway systems; and

WHEREAS, the Kalihi Neighborhood TOD Plan does not ignore past planning for the community, but builds on the objectives of the Kalihi-Palama Action Plan (2004); and

DPPKATOD.R15



RESOLUTION

WHEREAS, the Kalihi Neighborhood TOD Plan is consistent with the Primary Urban Center Development Plan established by ROH Chapter 24, Article 5; and

WHEREAS, the Council desires to approve the Kailhi Neighborhood TOD Plan; now, therefore,

BE IT RESOLVED by the Council of the City and County of Honolulu that, pursuant to ROH Section 21-9-100-2(f), the Council hereby approves the Kalihi Neighborhood TOD Plan (November 2014) attached hereto as Exhibit A and incorporated herein by this reference; and

BE IT FURTHER RESOLVED that, pursuant to ROH Section 21-9.100-3(a), the Director of the DPP is directed to submit to the Planning Commission, within 120 days of the adoption of this Resolution, a proposed ordinance establishing TOD zones for the Middle Street Transit Center, Kalihi, and Kapalama rail transit stations, and the TOD development regulations applicable thereto; and



CITY COUNCIL
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAII

No. _____

RESOLUTION

BE IT FINALLY RESOLVED that copies of this Resolution be transmitted to the Mayor, the Director of the Department of Planning and Permitting, and the Honolulu Authority for Rapid Transportation.

INTRODUCED BY:

DATE OF INTRODUCTION:

Honolulu, Hawaii

Councilmembers

Exhibit A

**Kalihi Neighborhood
Transit-Oriented Development Plan
Draft Final Plan
November 2014**



City and County of Honolulu

Kalihi

Neighborhood Transit-Oriented Development Plan

Draft Final Plan

November 2014



Prepared by

DYETT & BHATIA

Urban and Regional Planners

Bills Engineering Inc.

Keyser Marston Associates

Weslin Consulting Services, Inc.

William Chang Architect

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1 INTRODUCTION

Kalihi is one of the most diverse communities in Honolulu. It hosts a range of small commercial and industrial businesses and serves as a home to long-time residents and new immigrants. With the introduction of rail transit, Kalihi has the opportunity to emerge as a vital mixed-use district, with a new neighborhood in Kapalama, more diverse housing and employment opportunities, reinvigorated educational centers, new open spaces, a promenade along Kapalama Canal, and a multi-modal circulation network connecting residents and workers to key destinations, homes, and jobs.

The rail project will improve travel reliability and is expected to shorten travel times for most riders between homes and jobs throughout Honolulu and Kalihi. It is

also expected to improve access to the airport and other major destinations, as well as increase transportation options by transit, bicycle, and on foot. Integrating rail planning with neighborhood planning is essential to realizing the full potential of this major regional transit investment. The Kalihi Neighborhood TOD Plan will guide development over the next era of Kalihi's growth and enhancement.

This plan provides a land use and circulation framework to guide future development; identifies more detailed policies and regulatory standards for urban design, parks and community benefits and services; and recommends implementation measures to advance the community's vision into reality.



The rail project will provide reliable transit to Kalihi and opportunities for revitalization and quality of life improvements for generations to come.

1.1 Purpose and Process

Honolulu Rail Transit Project

The U.S. Department of Transportation Federal Transit Administration and the City and County of Honolulu (City) are undertaking a project that will provide rail transit service on Oahu. The Honolulu Rail Transit corridor is approximately 20 miles long, extending from East Kapolei in the west to Ala Moana Center in the east, with 21 station stops. In subsequent phases, the rail corridor is envisioned to extend to West Kapolei and the University of Hawaii at Manoa. The fixed-guideway system will operate in an exclusive elevated right-of-way to ensure speed and reliability and avoid conflicts with vehicles and pedestrians. The service will connect employment and residential centers and provide access via feeder buses and shuttles at stations to areas not served by rail.

The project is intended to improve the speed, reliability, and quality of transit. For example, the trip between the Middle Street Transit Center and the Downtown station will be eight minutes, and between Kalihi and Waipahu less than a half hour, with speeds comparable to, or faster than, driving (particularly in peak period traffic).

The project will be constructed in stages. The stage between East Kapolei and Aloha Station has begun and is expected to be operational by 2018. The last stage—which includes the three Kalihi stations—will be under construction between 2015 and 2018. The entire 20-mile long project is projected to be operational in 2019.

Following Section 106 guidelines, the Honolulu Authority for Rapid Transit (HART), the agency implementing the project, entered into a Programmatic Agreement with Consulting Parties in September of 2011. While the agreement primarily covers cultural, historical, and archaeological mitigation, there are also stipulations related to urban design around station areas and the consideration of historic preservation in the station areas.

Neighborhood Transit-Oriented Development (TOD) Plans

What is the Kalihi Neighborhood TOD Plan?

The City is preparing neighborhood transit-oriented development (TOD) plans that integrate land use and transportation planning around the rail stations in anticipation of the rail project. The plans are intended to address opportunities for new development including rehabilitation and adaptive reuse of existing buildings and assets, and to holistically plan for orderly growth and improved accessibility around the stations. The Kalihi Neighborhood TOD Plan addresses land use, local transportation, public facilities and services, economics, infrastructure planning, and implementation around the three Kalihi stations: Middle Street Transit Center, Kalihi, and Kapalama.

What are the objectives of the Plan, and how will it affect me?

The rail project is expected to increase transit ridership in Honolulu and help reduce the growth of traffic congestion by taking cars off the road as more people use transit to access their homes, jobs, and other destinations. This plan will further boost transit and walkability by promoting land use patterns that enable more people to live and work within walking distance of a rail station. This will also foster more efficient use of land by decreasing the need for parking and even car ownership, and promoting higher-density development.

Improved transit access and new shopping and services adjacent to rail will be beneficial for residents, employees, and visitors in Kalihi, where parking is limited. It will enable community members to enjoy new uses throughout Kalihi, such as restaurants and convenience shopping, as well as rail access to other parts of the city. A new high intensity mixed-use district in Kapalama, outlined in this plan, would provide housing in close proximity to Downtown and the rail system, and a full complement of neighborhood amenities, including stores, public facilities, social services, and parks. Kapalama could become an attractive neighborhood for a variety of population segments—professionals working in Downtown or Kalihi, young people just starting out their careers, students attending Honolulu Commu-

nity College, as well as seniors who want convenient access to services without having to drive.

How and when will this plan be implemented?

The TOD Plan works together with the City's other regulatory documents, including the Land Use Ordinance, to outline the vision, policies, and specific regulations for new development while preserving historic and/or cultural resources. Property owners and developers will ultimately decide on the opportune time to build. Some development may take place in the short-term in advance of, or soon after, rail becoming fully operational in 2019. Other development projects and improvements may take as many as 20 or 30 years to come to fruition. The availability of funding on the part of the City (e.g., through the Capital Improvement Program), timing of key infrastructure improvements (as described in Chapter 5 and 6), and the general economic and lending climate for private development are some of the factors that will affect the timing and extent of development and revitalization.

The TOD Plan articulates the community's vision and needs, while providing enough flexibility to allow land owners and applicants to make decisions based on market demand and economic conditions. Maps, diagrams, photographs, and conceptual three-dimensional models and sketches are used extensively throughout the Plan to illustrate the vision and policies and to provide guidance to developers and decision-makers. Actual future development will not precisely match the conceptual illustrations but should follow the intent.

In parallel to this TOD planning effort, the City is preparing zoning regulations that will create a TOD Special District to help implement the vision of each of the TOD plans. The TOD Special District regulations (Sec. 21-9.100 of the Land Use Ordinance) will supplement or modify the underlying zoning district regulations, establishing standards that explicitly promote TOD. Some design standards may apply to all station areas throughout the rail corridor, such as those relating to pedestrian-oriented design. Other standards may be specific to just one or a few stations. For example, different setbacks standards may apply in the urban setting of Kalihi versus the greenfield setting of East Kapolei.



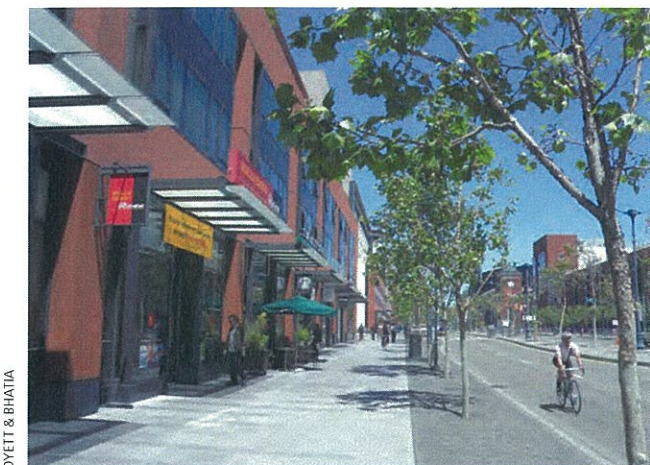
Integrating land use planning with the rail project provides opportunities for improved connections for pedestrians, bicyclists, and transit riders, thereby reducing reliance on driving, promoting community health, and increasing interactions between neighbors.



DYETT & BHATIA



DYETT & BHATIA



DYETT & BHATIA

Transit-oriented development helps support transit ridership and creates vibrancy during the day and/or evening, depending on the types of uses—residential, office, or a mix of uses.

WHAT IS TRANSIT-ORIENTED DEVELOPMENT (TOD)?

Transit-oriented development (TOD) typically refers to development within easy walking distance of a major transit stop that both capitalizes on and supports transit ridership. TOD may be redevelopment of existing facilities or new development. Transit stops may be rail stations, major bus stops, or other well-used transit hubs. The areas where TOD typically occurs is within ¼- or ½-mile radius around the station/stop (a five or ten-minute walk). TOD should be designed at the pedestrian scale since all transit trips begin and end as walking trips.

TOD is typically moderate to higher-density development, with a mix of residences, employment, and shopping, but not necessarily all in the same building. Higher densities are an important part of the TOD definition in order to encourage use of transit, reduce the area devoted to parking, and support shopping, open space, and pedestrian facilities. In other words, a community cannot support the amenities of an ideal TOD without customers (residents or employees). For example, a contemporary supermarket of about 45,000 square feet requires the support of 8,000 to 10,000 people, ideally within a ¼-mile radius.

Density can create more housing choices and more affordable housing, and reduce household transportation costs. Though typically composed of a mix of uses, depending on the community or site context, TOD areas or projects may be more oriented toward residential development or employment uses.

Process and Community Engagement

This plan was developed in a four-phase process, as shown in the graphic schedule on page 1-6. Community involvement was integral to shaping the Plan, with neighborhood board meetings, public workshops, interviews, a survey (described below), and project website providing opportunities for input during each phase.

The Project Advisory Committee, comprised of Kalihi community leaders and stakeholders, helped to shepherd the process, contributing to the community vision, identifying major issues and opportunities, reviewing policy recommendations and products, and helping to design community workshops.

Community Survey Findings

A community needs survey was mailed to 86 percent of all households within a ½-mile of the stations—a random sample of 4,000 households. The survey was offered in English, Tagalog, and Ilocano. The response rate was very high—28 percent (1,100 responses)—providing the perspective of a large portion of Kalihi residents that will be most affected by the rail and potential development. The priorities and issues identified in the survey results contributed to the vision and policies in this plan and are summarized below and in the relevant chapters throughout the Plan. Overall, Kalihi residents:

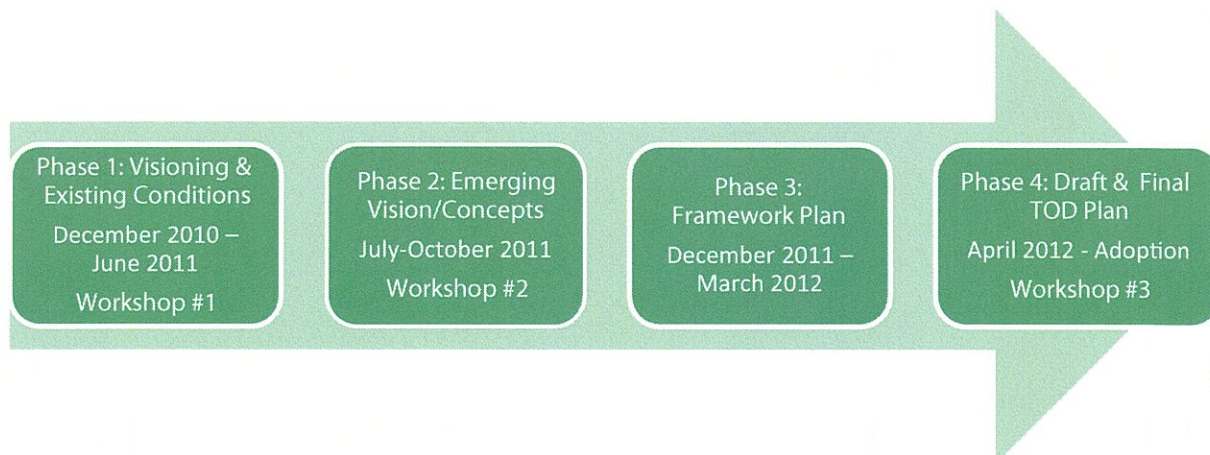
- Appreciate the neighborhood's convenient access to bus transit, jobs, shopping and affordable housing;
- Value the neighborhood's parks/landscaping, schools, small retail shops, and Bishop Museum;
- Identify the highest priorities for improvement as safety measures, road improvements, cleanliness, and overall appearance;
- Support sidewalks improvements, additional parking, more affordable housing, and additional children's playgrounds and parks;
- Support improving landscaping, seating, crosswalks, street lighting, and bus shelters as the top priorities for street and streetscape improvements; and
- Would like to see coffee shops, restaurants, pharmacies, and convenience/grocery stores around rail stations; and
- Support parks, retail stores, and parking structures along Kapalama Canal.



Residents, business owners, property owners, advocates and other stakeholders participated in key milestones during the TOD Plan process, creating the community vision and refining the Plan's key recommendations.

Project Phases

1. The **Visioning & Existing Conditions** phase included an extensive community outreach effort to understand neighborhood issues and aspirations. Outreach activities included interviews with over 20 stakeholders/groups, a workshop attended by over 80 community members, two meetings with the Advisory Committee, and a community survey completed by 1,100 residents. Supplementing the visioning process were a series of technical analyses that resulted in a Market Demand Study and an Existing Conditions Report, which looked at opportunities and constraints related to land use, circulation, community design, the real estate market, and infrastructure. An overall vision and set of planning principles emerged from this first phase and provided a guide for next steps in the process.
2. The **Emerging Vision/Concept** phase illustrated the emerging vision for the three station areas in Kalihi and explored options for land use, open space, and circulation. A Concept Plan described future land use and development possibilities based on the opportunities and challenges analyzed during the existing conditions analysis and direction from community outreach activities. Feedback from outreach meetings informed further revision of the concept.
3. The **Framework Plan** phase formed the bridge between exploration of various options and this plan. It outlined the overall concept for each station area and specific land use, circulation, and open space ideas. The Framework Plan was further refined following review by the Advisory Committee, government agencies and other project stakeholders. Policy recommendations were also explored in this phase.
4. The final **TOD Plan** phase involved the preparation of the TOD Plan report; public and agency review of the Draft Plan; public hearings; and formal acceptance by resolution by the City Council.



1.2 Project Location and Boundaries

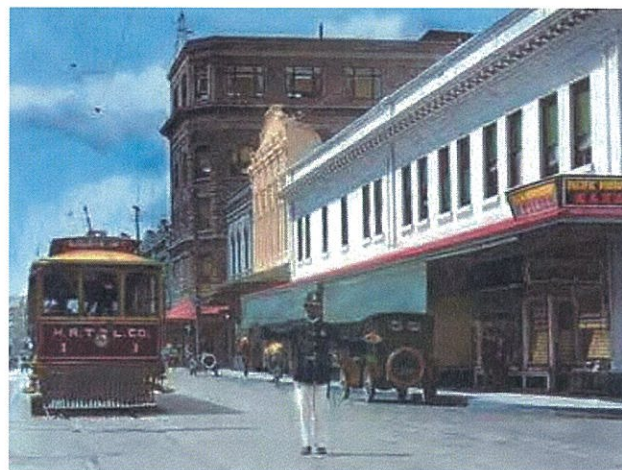
Project Location

The three Kalihi rail stations are located in urban Honolulu, as shown in Figure 1-1. The project location includes industrial/warehouse uses, a transit center, and a portion of Fort Shafter around the Middle Street station; residences and small businesses around the Kalihi station; and Honolulu Community College, big box stores, businesses and industrial warehouses around the Kapalama station. Dillingham Boulevard is the major roadway running through the project area and will serve as the spine for the rail line.

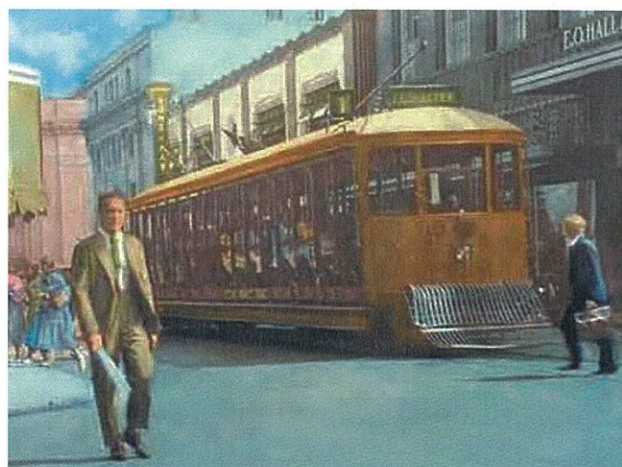
Throughout this plan, a ½-mile (2,600-foot) radius is drawn around each of the three stations to approximate a ten-minute walking distance, generally an acceptable maximum walking distance from transit. A ¼-mile (five-minute) walking distance is also drawn to highlight the sites closest to the stations, as shown in Figure 1-2. The plan generally uses the ½-mile radius to address transportation improvements, urban design recommendations, and infrastructure needs, though some portions of the area are excluded due to inaccessibility (i.e., mauka of H-1 and the freeway interchange, and Fort Shafter).

TOD Zone

A smaller area called the “TOD Zone” includes areas closest to the stations that are the most viable and important TOD sites. This zone encompasses most of the sites with development or redevelopment potential. The TOD Zone is the area where special district regulations will apply. Although the TOD Zone highlights the sites that are most likely to redevelop in response to rail transit access, it is also possible that sites beyond this area could also redevelop as TODs.



ISLAND PHOTO COLLECTION

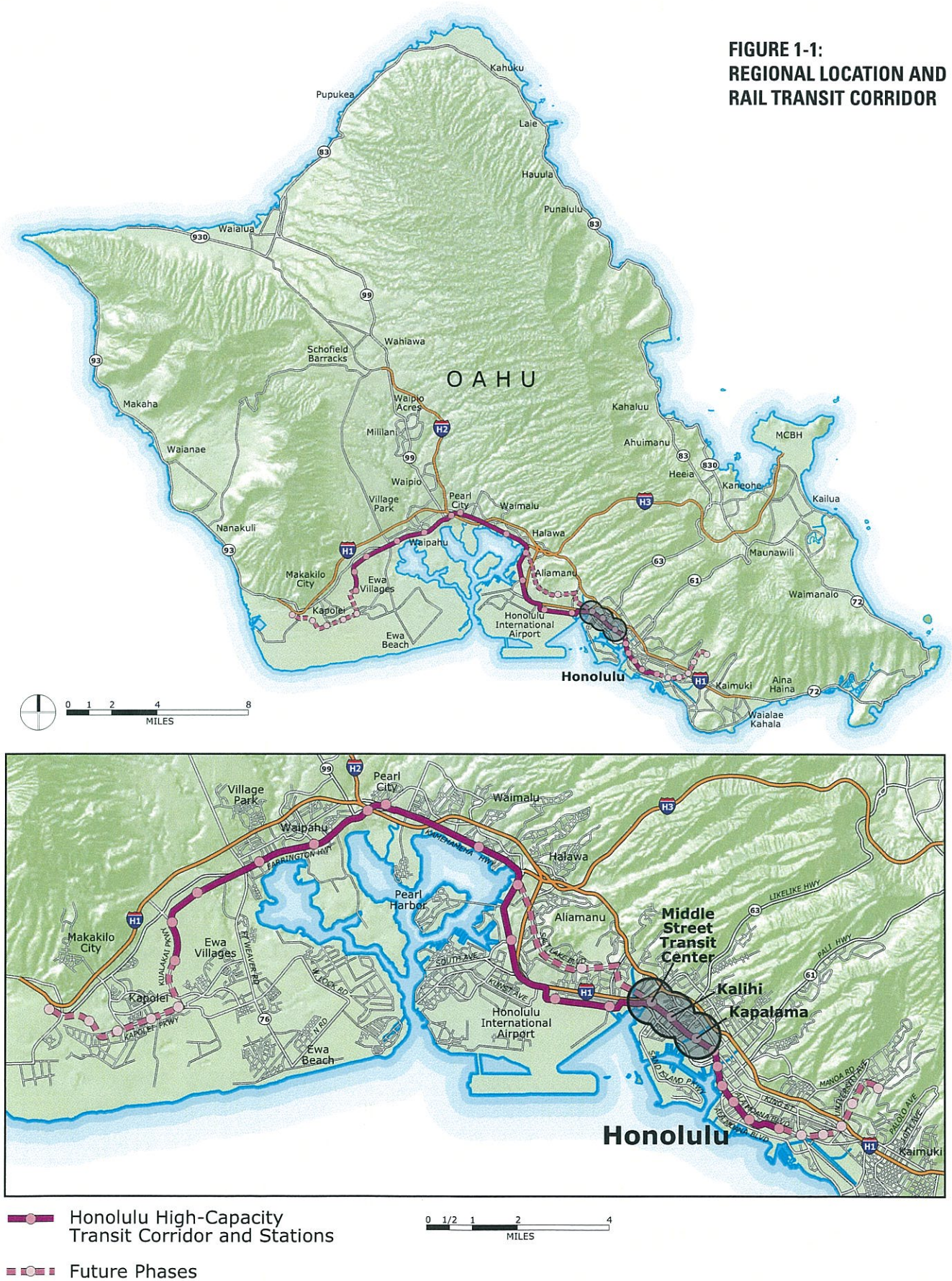


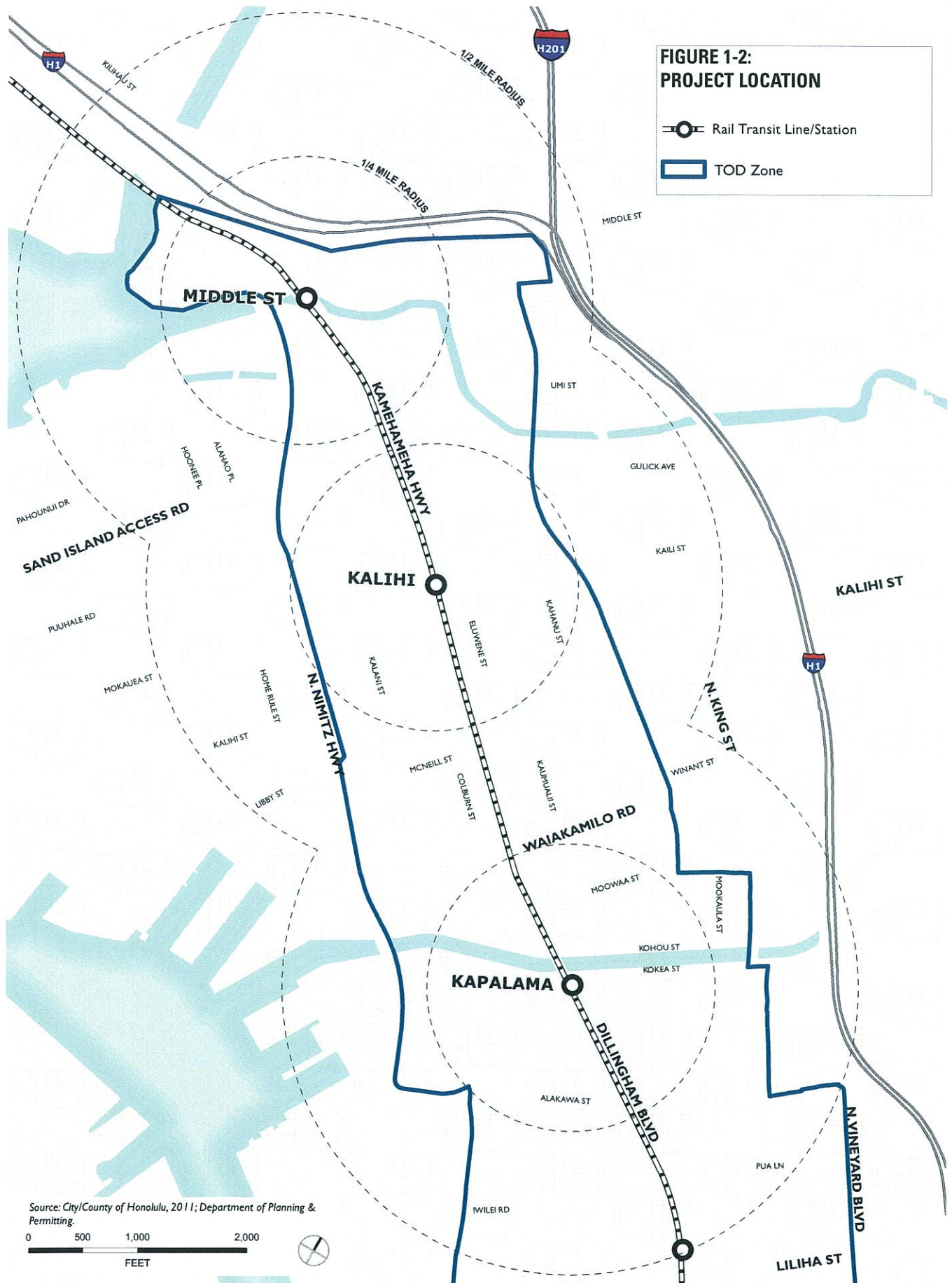
COLLECTION OF ROBERT C. PAOA



TOD is not a new concept in Honolulu. Private transit operators developed real estate and used the profits to subsidize transit operations beginning in 1901. Today, many Kalihi residents continue to utilize transit to get to and from work, school, and other destinations.

**FIGURE 1-1:
REGIONAL LOCATION AND
RAIL TRANSIT CORRIDOR**





1.3 Corridor Vision and Planning Principles

A community vision and a set of guiding principles emerged from the early public participation activities, including the survey and community visioning exercises, where community members described their aspirations for Kalihi once rail has been introduced. During Advisory Committee meetings and a subsequent workshop, community members further refined and expanded on the vision and principles. The vision and principles provide a foundation for all components of the TOD Plan, from the land use and transportation framework to more detailed policies and guidelines.

COMMUNITY VISION

Kalihi will be a livable urban community with a balance of employment, residential, and recreational uses that enjoy high-quality transit access and reflect the area's central location and rich cultural heritage. Neighborhoods will be pedestrian- and transit-friendly, where children walk to school, parents shop for basic goods near their homes, and community members enjoy access to good jobs, good food, safe streets, and quality open spaces, housing, and services.

Revitalized districts in strategic locations, particularly around Kapalama station, will capitalize on the presence of Honolulu Community College, the area's proximity to Downtown, and its natural resources. The community's ethnic, income, age, and small business diversity is maintained and enhanced through a variety of housing, commercial, education, and economic opportunities. The corridor's assemblage of varied districts—Kapalama, Kalihi, and Middle Street—will retain unique identities as they develop and evolve.

Guiding Principles

1. *Revitalize Kalihi into a More Livable Community.* Promote redevelopment/re-use depending on the unique conditions around each station. Invest in the community by enhancing existing facilities and encouraging new development that supports the community vision and capitalizes on transit access.
2. *Maintain and Enhance Diversity.* Enhance the unique character of Kalihi, including its multiple ethnicities, multi-generational households, small “mom and pop” businesses, mix of uses, and housing affordability. Address concerns about maintaining the affordability of housing, small businesses, and industrial/warehouse uses.
3. *Improve the Quality of Public Spaces.* Integrate the rail stations into their surroundings; improve overall streetscapes, including sidewalk improvements/provision, trees and landscaping, new streets to provide better walking connections (particularly mauka-makai connections), and undergrounding of utilities; provide safe and accessible parks and open spaces.
4. *Improve Connections to the Waterfront.* Improve access to Sand Island Park and Keehi Lagoon Park, and enable safe and comfortable pedestrian crossing of Nimitz Highway. Enable pedestrian and bicycle access to and views of the waterfront, where feasible.
5. *Create a Convenient and Accessible Transportation Network.* Create a convenient transportation system that integrates bus and rail transit, bicycle facilities, pedestrian connections, and adequate off-street parking. Provide a consistent set of amenities in and around each rail station (e.g., adequate lighting, bicycle parking) to ensure safety and meet basic service needs.
6. *Increase Public Safety.* Add lighting, find solutions for the homeless population, abate graffiti, encourage new residential and active uses that provide “eyes on the street,” and offer programs for youth to ensure that community members feel safe and that streets are clean and attractive.

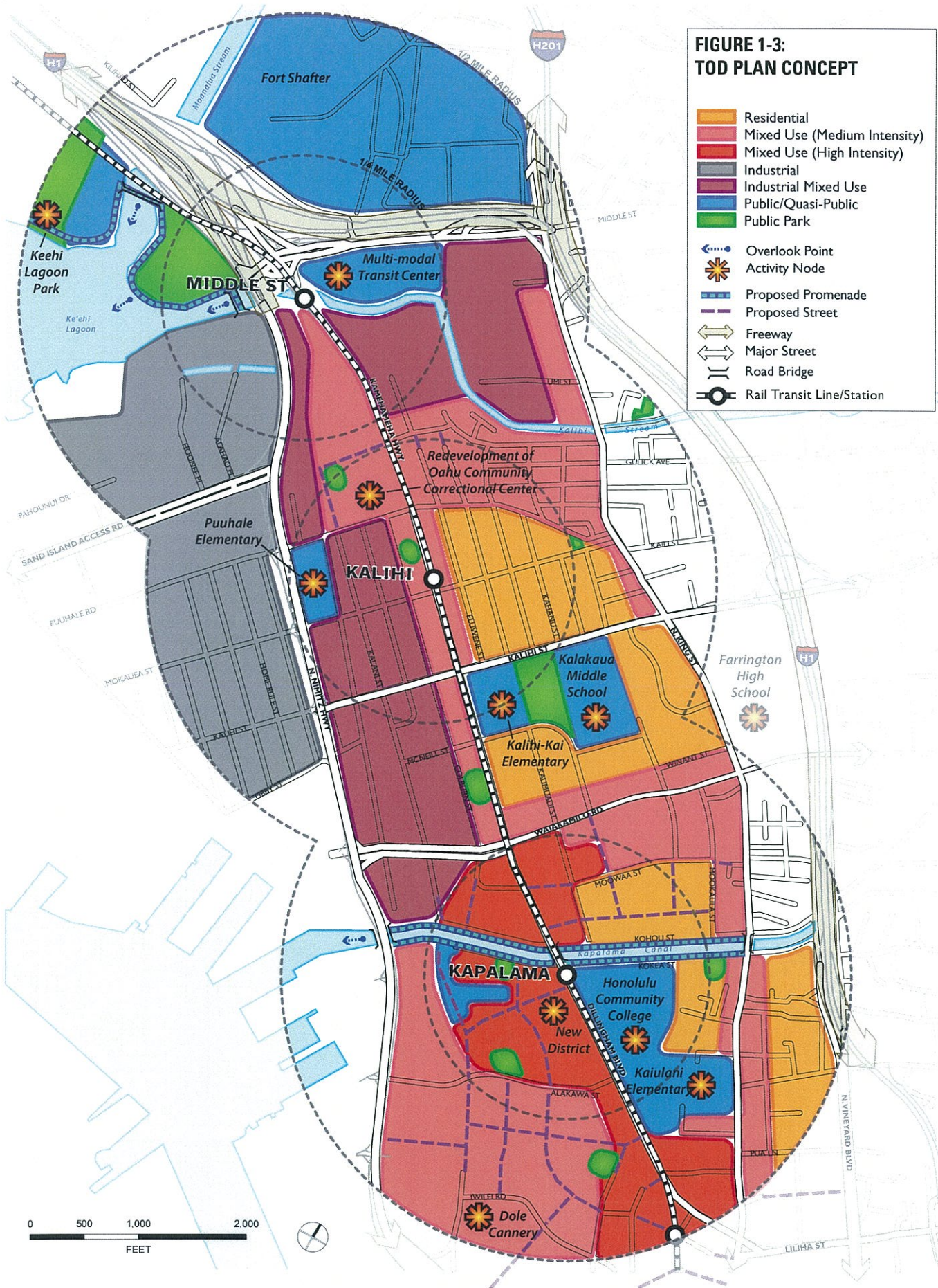
Overall Concept

Figure 1-3 illustrates the vision and guiding principles for the Kalihi Neighborhood TOD Plan, including generalized land uses, key destinations, views, and connections. Each of the components is explored in further detail in subsequent chapters and illustrations; a station-by-station summary is described here:

- Middle Street Transit Center:** The Middle Street area is identified as a major multi-modal hub where residents from neighborhoods not served by rail transit can transfer from bus to rail to get Downtown, to the airport, and to other destinations along the rail line. Access to Keehi Lagoon Park and a new proposed waterfront promenade are improved through a new waterfront promenade. Vital commercial and industrial uses are preserved makai of Nimitz Highway. In the long-term, the plan envisions a revitalized district, catalyzed by the possible transformation of the Oahu Community Correctional Center site.
- Kalihi:** The scale and character of uses around the Kalihi station are largely maintained, with a mix of industrial and commercial uses makai of the station and primarily residential uses mauka of the station. However, a greater mix of uses is envisioned along Dillingham Boulevard in order to provide transit riders with an array of shopping choices and services. In addition, new higher-density housing and rehabilitation of units in disrepair is encouraged in the residential neighborhood. New uses and public services accommodate the needs of seniors, children and families, and a multi-cultural community.
- Kapalama:** The most transformative vision for TOD in Kalihi is a new high-intensity mixed-use Kapalama district with residences, public facilities, jobs, and neighborhood shopping services. It creates an opportunity for new housing within close proximity to Honolulu Community College. A new linear park/promenade along Kapalama Canal creates a new open space and pedestrian connection for the neighborhood. New streets and paths break up large blocks in Kapalama and improve accessibility to Kapalama station and future uses.



The vision and guiding principles support new uses, amenities and improved connectivity, while maintaining the affordability and diversity of this unique community.



1.4 Planning Context: Related Plans and Policies

While the focus of the Kalihi Neighborhood TOD Plan is to create new policies to promote TOD, the plan also functions alongside other policy and planning documents and associated implementing ordinances and rules as follows. (Transportation, parks, and infrastructure policy documents are described in their respective chapters.)

City and County of Honolulu General Plan

The General Plan establishes goals and policies to guide planning and development on Oahu. Prepared in 1977 (and amended several times since), the General Plan calls for rapid transit in an exclusive right-of-way from Ewa to Hawaii Kai. The TOD Plan also carries forward many of the General Plan's other policies including those related to a diverse economy, pedestrian and bicycle facilities, affordable housing, adequate public facilities/services, well-designed buildings and public spaces, community health, and educational opportunities.

Primary Urban Center Development Plan

Adopted in 2004, the Primary Urban Center Development Plan (PUCDP) is a policy guide for the development decisions and actions required to support expected growth in Oahu's most populous region. The PUCDP supports rapid transit for an east-west corridor and promotes transit-oriented development. It also recommends developing existing and new neighborhood centers: central places where people gather for shopping, entertainment or recreation, and which entail pedestrian and park improvements.

The PUCDP supports pedestrian improvements—prioritizing routes along the canals and Dillingham Boulevard—including a connected sidewalk network, crosswalks, curb extensions, pedestrian median refuges, broad promenades, pocket parks, shade trees, street furniture, and adjustment of traffic signal phasing. It also supports the continuation and enhancement of commercial and industrial uses in the Kalihi and Kapalama areas (makai of the stations), calling for appropriate noise and visual mitigations where located near residential and other sensitive communities.

Land Use Ordinance

The Land Use Ordinance regulates land use, lot size, building heights, setbacks, and building area regulates the use, size, and character of development in the city.

National and State Registers of Historic Places

The National Register of Historic Places (NRHP) is the United States federal government's official list of districts, sites, buildings, structures, and objects deemed worthy of preservation. In addition, the State Historic Preservation Division of the Department of Land and Natural Resources maintains a statewide Inventory of Historic Properties throughout Hawaii and works to preserve and sustain reminders of earlier times which link the past to the present. The TOD Plan covers properties on both registers.

Affordable Housing Rules

The City's inclusionary housing rules (Amendment of the Affordable Housing Rules for Unilateral Agreements) require residential projects of ten or more units seeking a zone change to provide affordable units below market rate. It stipulates that approximately 30 percent of the total number of dwelling units should be sold or rented to low and moderate income households. (The actual final percentage depends on the mix of unit types—units with two or more bedrooms are given more weight than studio and one-bedroom units.) The Rule also offers incentives for TOD housing. In addition, in-lieu fees may be paid to satisfy the affordable housing requirement for projects totaling 100 units or fewer. The City is pursuing new affordable housing requirements for residential projects of ten or more units not seeking a zone change.

Kalihi-Palama Action Plan

Prepared in 2004, the Kalihi-Palama Action Plan provides a vision for the future of the neighborhoods in the Kalihi-Palama area (8,500 acres between the coastline and the ridge-line) and a series of actions that would improve quality of life for residents, businesses, and visitors. The plan presents a vision statement, which reflects on the area's multi-cultural heritage and natural beauty. This Action Plan will continue to apply to the Kalihi corridor and is generally consistent with the Kalihi Neighborhood TOD Plan.

Specific recommendations and programs include:

- Revitalize existing buildings and redevelop vacant lots (into off-street parking facilities or park space).
- Improve Dillingham Boulevard with the addition of pedestrian and bike paths, and infrastructure upgrades, including undergrounding of utilities.
- Develop a “college town” around HCC with dormitories and commercial establishments that cater to students (e.g., copy services, dining), as well improvements to Kokea Street.
- Improve Kapalama Canal, including clean-up, preservation, and construction of trail amenities.
- Redevelop the Oahu Community Correctional Center as a community gathering place, such as a multi-cultural marketplace.
- Maintain Dillingham Boulevard and Waiakamilo Road area as major commercial shopping areas and limit big box stores to the Iwilei area.
- Improve existing open space (addressing concerns about insufficient lighting, homeless, and vandalism) and develop new open space to rectify park deficiency.
- Improve roadways and streetscapes, including adequate and ADA-compliant sidewalks, street lighting, street trees, landscaped medians, drainage systems, on- and off-street parking, and bus stops with a shelter, benches, and safe setbacks from moving vehicular traffic.
- Revitalize neighborhoods by rehabilitating deteriorated housing and encourage mixed-use development.
- Revitalize industrial uses and improve access for pedestrians makai of Dillingham, particularly for students at Puuhale School and residents, until residential uses transition to industrial or other uses.
- Encourage innovative high-tech and manufacturing “maker” businesses to preserve the area as a job center.

1.5 Plan Organization

Following this introduction, this report is organized as follows:

- **Chapter 2** describes the proposed land uses and potential build out of the plan, including the land use classification system, maximum building heights, and building density/intensity.
- **Chapter 3** describes the circulation plan and mobility strategy, including a set of improvements to create a safe, convenient transportation network for various travel modes.
- **Chapter 4** illustrates improvements to the public realm, including open space and streetscapes. It also includes recommendations for urban design measures that can help achieve the community vision of pedestrian-oriented station areas and community safety.
- **Chapter 5** discusses improvements to public facilities and services, specifically infrastructure systems (water, sewer, and drainage), affordable housing and social services, and other community services.
- **Chapter 6** provides a consolidated implementation program, including zoning and land use regulations, a responsibility matrix, phasing, and financing options.



Existing big box stores with large surface parking lots and warehouse uses, particularly in the Kapalama station area, offer opportunities for repositioning and redevelopment as mixed-use developments with residential, retail, and/or office components.

2 LAND USE

This chapter outlines the land use strategy that will enable development of the Dillingham Boulevard corridor into a series of vital mixed-use destinations that support transit ridership with expanded residential, retail, employment, and educational opportunities, as well as enhanced community services for existing and future residents. The chapter identifies the location and extent of proposed new land uses, presents a classifica-

tion system for future land uses, and estimates development potential to help anticipate the implications of land use changes on circulation, infrastructure, and public facilities and services. A summary of the market demand study and analysis of constraints (economic and environmental), which served as the basis of the land use framework, is also provided in this chapter.



Kalihi's identity is reflected in part by its diverse range of land uses, including homes, independent small businesses, warehouses and manufacturing, and public spaces with great potential.



Industrial and warehouse uses, including wholesalers, self-storage, and manufacturing, are the most prevalent uses in the Kalihi corridor, and particularly in the Middle Street (top, middle) and Kapalama station areas (bottom).

2.1 Context

Kalihi residents already rely on transit extensively, compared with residents who live in other parts of the island. Particularly around the Kalihi station area—which accounts for nearly all the housing units in the corridor—the small-block grid pattern and dense mix of retail, employment, and residential uses support transit ridership by providing destinations that are a convenient walk to transit.

The Middle Street station area is less conducive to local transit ridership since blocks are large, streets often dead-end, and commercial and retail destinations are fewer. However, the presence of the transit center provides an important bus transfer hub where many bus lines intersect. The Oahu Community Correctional Center currently limits the desirability of the neighborhood for new development.

The Kapalama station area today has low-intensity, large floor plate buildings, underutilized large blocks, and missing sidewalks in many locations. It has the potential to be transformed into a vibrant high-intensity, walkable mixed-use district, in which Kapalama Canal becomes a public amenity and Honolulu Community College serves as an educational hub.

Achieving the vision for the entire Kalihi planning area will require new streets to improve connections to the rail stations, and the expansion of residential uses to create a critical mass of residents. It will also require the development of retail and office/business incubator uses that “activate” the streets during the daytime, as well as the evening, and new parks, open spaces and public facilities that make the district livable.

Existing Land Use

As illustrated in Figure 2-1, the Kalihi corridor currently encompasses a diverse range of land uses. The Middle Street station area is comprised primarily of industrial and warehouse development and public uses. The Fort Shafter Army base and a series of on- and off-ramps comprise much of the land area of the station. There are a range of businesses related to shipping, sheet metal, and airport operations, but also food production (e.g.

Love's Bakery) and wholesale/distributors. There is also some large-format retail development, including Airgas and Marukai Wholesale Mart. The Oahu Community Correctional Center and the Laumaka Work Furlough Center are located on either side of Dillingham Boulevard between the Middle Street and Kalihi stations.

The Kalihi station area has two distinct characters: makai and mauka of Dillingham Boulevard. Makai of Dillingham, there are a range of uses from engineering offices/machine shops, food industries and warehouses to single-family residential homes. Mauka of Dillingham Boulevard, land uses are generally residential, with some stores and auto-related uses interspersed. Along Dillingham Boulevard, there are a range of small commercial buildings, including fast food, gas stations, offices, banks, and auto uses (e.g., sales and repairs). Notably, nearly all housing units within the three-station planning area are located around the Kalihi station. Most residences are two-story single-family homes with carport parking, though small and mid-size apartment buildings are also located throughout the neighborhood. The Kalihi station area is also home to a park and an elementary and middle school on Kalihi Street.

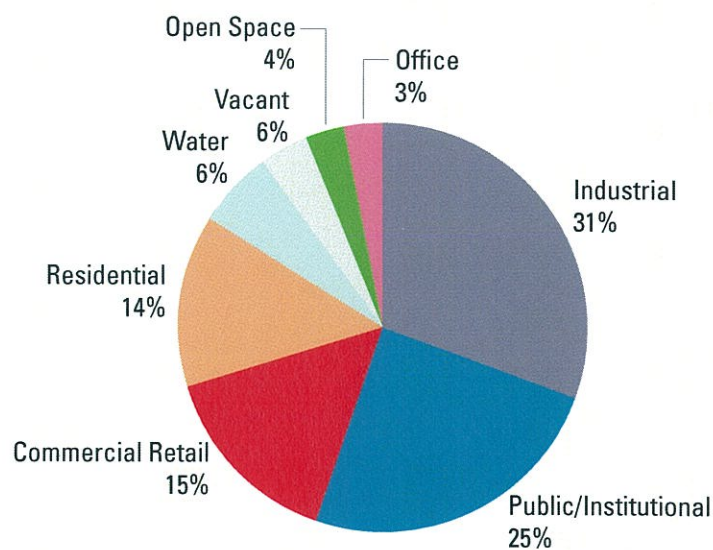
The Kapalama station area is characterized by retail and industrial/warehouse uses, as well as the presence of Honolulu Community College. There are several older retail buildings and shopping centers along Dillingham Boulevard with small and medium-sized tenants and surface parking. A range of retail services are provided, including restaurants, fast food, groceries, karaoke clubs, gas stations, self-storage, and student-oriented services. Makai and mauka of Dillingham Boulevard are commercial and warehouse uses, including trucking, import, and woodworking businesses, as well as hardware stores and contractor supplies, generally housed in one- or two-story buildings.

In the entire Kalihi ½-mile corridor, industrial uses represent the largest land area, in terms of both acreage and building square footage. These uses comprise 31 percent of the land area with 6.2 million square feet of building area. Public/institutional uses, such as the Honolulu Community College campus and the Oahu Community Correctional Center, represent a quarter



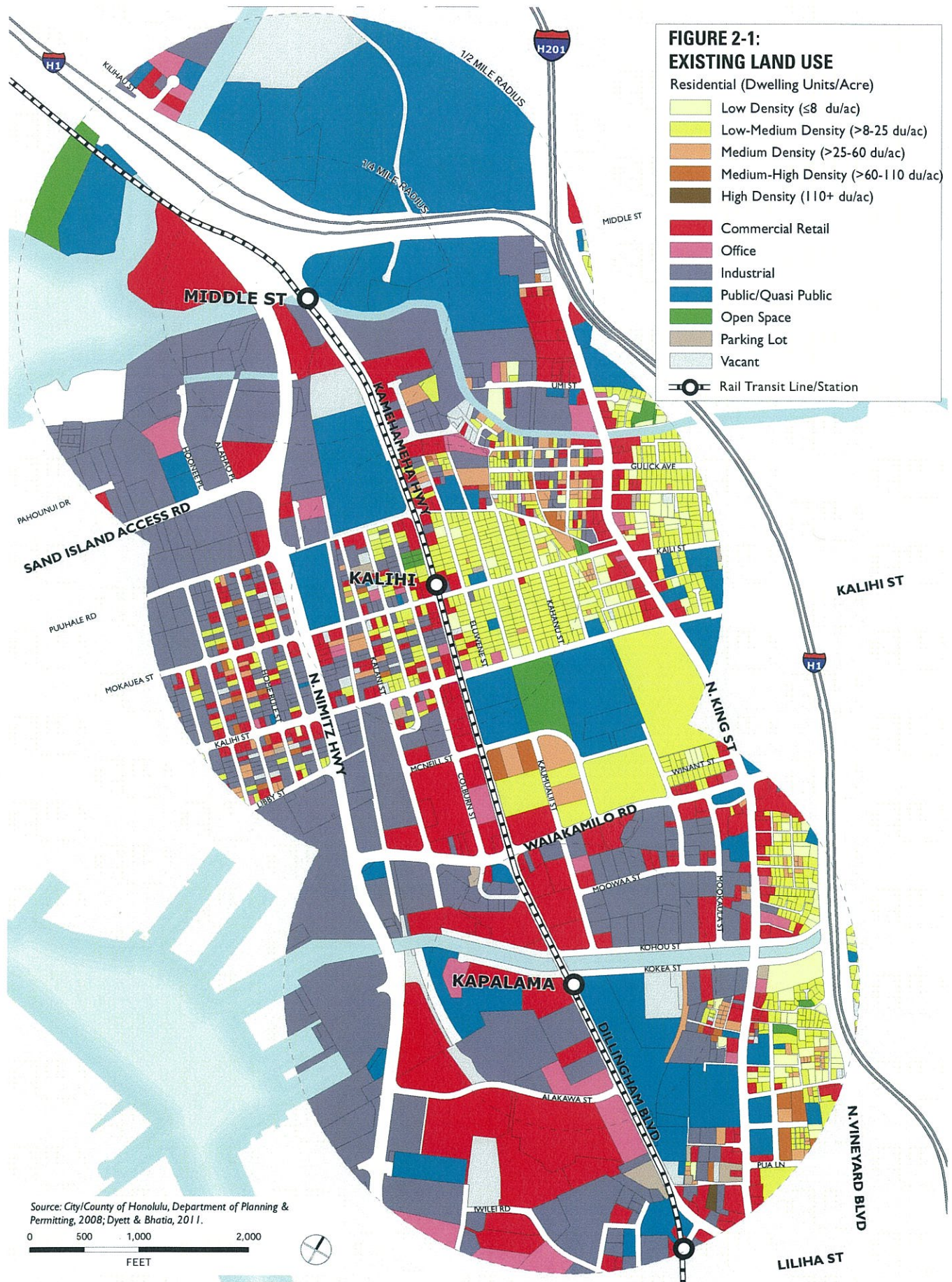
The Kalihi station area reflects a patchwork of uses, where industrial and commercial uses are interspersed with residential homes.

**CHART 2-1:
EXISTING LAND USE, PERCENT BY ACRES**



Note: Acreages exclude streets and other rights-of-way.

Source: City/County of Honolulu, Department of Planning and Permitting, 2008; State of Hawaii, 2011; Dyett & Bhatia, 2011.



of the ½-mile area, while commercial uses comprise 15 percent. Residential uses comprise 14 percent of the ½-mile area—approximately 3,700 housing units. Only two percent of the area is devoted to open space/parks. Office uses are also quite limited, representing just two percent of the land area.

Opportunity Sites

Although many uses in the Kalihi corridor may remain the same for years following the arrival of rail, there are sites around the stations that may be appropriate for redevelopment or revitalization in the short- (0 to 5 years), medium- (5 to 10 years), or long-term (10 to 25+ years). While buildings on some sites may be demolished and rebuilt from the ground up, others may be adaptively reused or improved.

Potential development or “opportunity” sites are those non-historic properties that are vacant or considered to be underutilized due to low building intensities or low building value relative to land value, or where buildings are vacant or in disrepair. In addition, stakeholders and City staff identified several sites during the initial community outreach and existing conditions analysis phases that have potential for transit-oriented development. These sites are the focus for transit-related improvements to sidewalks, streets, landscaping, and other amenities that can encourage walking, biking, and transit use.

The Kapalama station area has the most opportunities for redevelopment given vacant land, low-intensity warehouse uses, and consolidated ownership by Kamehameha Schools, which allows for easier lot assembly. There are also opportunity sites in the Middle Street station area, although many of these sites are constrained by flood risk and a lack of connectivity. Opportunities are more limited in the Kalihi station areas, where lots are small and there are many individual owners.



Opportunity sites may experience changes in use, redevelopment of underutilized sites, or adaptive reuse of existing buildings.



Much of Kalihi's housing stock is made up of single-family homes, though these homes often house multi-generational families or multiple families, or they serve as "care homes" for unrelated individuals. There is a need for additional housing and a variety of housing types to accommodate a range of households.

Market Demand Summary

As part of the first phase of the TOD Plan process, the consultant team assessed the potential market demand for residential, retail, office, hotel, and industrial uses in the ½-mile planning area. Trends and projections for each use analyzed are summarized below. The "Market Opportunities Study: Kalihi Neighborhood TOD Plan," a separate report published in 2011 and available on the City's website, should be consulted for additional details and data sources.

Residential Trends and Projection

Residential construction activity in Honolulu has declined over the past several years, even preceding the national recession. Furthermore, despite high demand for rental housing opportunities in the urban core, there has been almost no new development of market rate rental apartments in years, a reflection of the discrepancy between the values of for-sale condominiums versus those supported by apartment rents.

Currently, many workers commute long distances to jobs Downtown and in Kalihi. Construction of the rail system will result in greater demand for housing close to transit on Oahu as people seek to minimize the distance, time, and cost of travel. Locating this housing in attractive mixed-use neighborhoods and near jobs, stores, and cultural/entertainment amenities can further increase the desirability and market acceptance of housing closer to transit. For example, Downtown will be just a six minute train ride from the Kalihi station and within walking distance of the Kapalama station area.

With three of the system's rail stations, the Kalihi corridor could capture 1.9 percent of new housing in Honolulu in the next 25 years (compared to 1.1 percent without rail), or 4,000 additional units, as shown in Table 2-1. These units will likely be in low- to mid-rise buildings. Generally, we would expect the higher-density developments to occur in the areas immediately around the Kapalama station given the long-term opportunities for large-scale redevelopment of the Kamehameha Schools properties, the planned Honolulu Community College improvements, and proposed improvements to Kapalama Canal (see Chapter 4: Urban Design).

Retail Trends and Projection

Within the Kalihi corridor, there is a significant presence of big box retail adjacent to the Kapalama and nearby Iwilei stations, including Costco, Home Depot, and Best Buy. In addition, there are many neighborhood-serving convenience retail establishments which include supermarkets, pharmacies, and eating and drinking establishments. Much of the existing retail can be characterized as strip retail at low densities. Except for the big-box stores, much of the inventory of retail space was built more than 30 years ago; as a result, much of that space is in need of significant reinvestment or redevelopment.

Based on projected household growth, the market demand study finds that the market could support approximately 465,000 square feet of retail development within the ½-mile radius by 2035. Based on the anticipated breakdown of retail sales, it is likely that a large portion of future TOD-type retail will be in small- to medium-format stores with the largest of these stores being in the 50,000 to 60,000 square-foot range, or about the size of a modern supermarket. Other retail sales, such as clothing stores (non-discount), sporting goods, books and music, gift stores, and eating and drinking establishments, will likely be in smaller formats. A portion of the retail space, perhaps in the ten to 15 percent range, could be supported on the ground floor of mixed-use buildings, with residential or office uses above.

Office Trends and Projections

The vast majority of office space in Honolulu is located Downtown and was built in the late 1980s and early 1990s. Just over 700,000 square feet of office space is recorded in the Kalihi corridor. There continues to be high vacancy rates and weakness in the finance, insurance, real estate, and tourism-related sectors of the office market, while office space catering to tenants with government and military contracts remains fairly steady, according to Hawaii Commercial Real Estate, LLC.

In the near term, there will be limited opportunities for new office development given the high cost of construction, the projected slow recovery in the economy,

**TABLE 2-1: MARKET DEMAND PROJECTIONS
(WITHIN 1/2-MILE AREA) BY 2035**

| DWELLING UNITS | RETAIL (SQ. FT.) | OFFICE (SQ. FT.) |
|----------------|------------------|------------------|
| +/-4,000 | +/-465,000 | +/-575,000 |

Source: Keyser Marston Associates, "Market Opportunities Study Kalihi Neighborhood TOD Plan," May 2011.

and the availability of vacant space. As the economy stabilizes over the longer term and more healthy growth patterns return, there will likely be demand for new office space, expected in the following industries: high tech, life sciences/biotech, and defense contracting. This growth in demand will continue to put upward pressure on office rents. The market demand study estimates that approximately 1,600 new office jobs could be generated in the Kalihi ½-mile area between 2010 and 2035, within an additional 575,000 square feet of office space.

Hotel Trends and Projections

Visitor numbers to Hawaii dropped dramatically during the recession, with the Japanese earthquake and tsunami of March 2011 providing another blow. However, the state attracted nearly 7.3 million visitors in 2011, just shy of the 2006 record, according to the Hawaii Tourism Authority. Vacationers spent \$12.58 billion in 2011, the second-highest total in state history. Demand for hotel rooms is likely to continue to increase in the future. However, there are currently no hotels in the Kalihi planning area, and the market assessment did not see new tourist-based hotels being developed in Kalihi in the foreseeable future.

Industrial Trends and Projections

Generally, industrial uses would not be considered consistent with TOD due to the large land areas involved and the low intensity of use. However, because many of the existing industrial businesses in the area appear to be economically healthy, there may not be a compelling reason for many of those properties to be redeveloped for any other use in the near term. The market fundamentals for industrial uses are, in fact, relatively healthy, particularly in the Iwilei/Kapalama submarket, where vacancy rates are low. Furthermore, these uses

support jobs near transit, so their continued presence will in fact help meet the planning objectives.

While the rents that might be supported by alternative uses in this area are generally not yet sufficient to justify the costs of new construction in the near term, development will likely occur in the long term. Eventually, rising property values will justify redevelopment of some industrial uses with higher value uses such as office and retail. The Dole Cannery and Gentry Pacific Design Center in Iwilei are examples of large industrial uses that have been converted to other uses.

Major Development Projects

There are several development initiatives already underway in the Kalihi corridor, including Honolulu Community College's proposed Master Plan and a master planning effort by Kamehameha Schools. These development projects could help to catalyze TOD, particularly in the Kapalama station area.

Honolulu Community College

Honolulu Community College's main campus is located along Dillingham Boulevard and Kokea Street. The auxiliary campus area is located one block makai of the main campus. The college has recently prepared a Long Range Development Plan to redevelop its campus. This plan accommodates the Kapalama station on the corner of its main campus in an effort to provide direct access to/from rail. The plan includes new instructional facilities; mauka-makai pedestrian connections through campus and an east-west pedestrian-only mall leading to the rail station; a student union to provide more recreation and activity space for students; and a parking garage that may include ground-floor commercial uses and housing above the parking decks. New buildings, between two and six stories, will increase the overall density of the campus.

Kamehameha Schools

Kamehameha Schools owns many properties around the Kapalama and Kalihi stations and is doing long-term planning efforts for the potential future use of these parcels. Their plan considers redevelopment opportunities, specifically targeting Dillingham, Kokea

and Kohou Street waterfronts. New development may comprise a mixed-use approach including mid-rise housing units along Kohou Street, commercial development that could serve existing and new residents and students, as well as maintaining industrial uses. Also, improvements to public amenities and the waterfront are envisioned.

Development Constraints

Development opportunities may be affected by a host of constraints. Market constraints, discussed above, will largely determine the viability of development. Some constraints, such as crime and homelessness, particularly in the Middle Street and Kapalama station areas, may be addressed through new housing and community design measures. Other factors that are specific to individual properties, such as financing availability, environmental constraints, and historic resources are discussed here, while policy measures to alleviate them are identified in Section 2.4.

Economic Constraints

TOD on any significant scale will require redevelopment of existing built properties. Due to poor physical condition or property underutilization, there may be numerous buildings within the corridor that will be good candidates for redevelopment. Station-specific economic constraints that may limit redevelopment are described below:

- **Middle Street Station Area**, with its new bus transfer station that will ultimately provide connections between bus and rail, presents opportunities for TOD. However, since industrial properties appear to be well-tenanted, and because there are environmental constraints in the area, it could be some time before these properties are ready for redevelopment.
- **Kalihi Station Area** is also challenged, though for different reasons. There are small parcels and many owners, making larger-scale reuse and consolidation unlikely. In addition, the area is in need of sidewalks and other pedestrian improvements.
- **Kapalama Station Area** appears to hold the most promise of the three stations areas for successful

TOD in the Kalihi corridor. This area is dominated by two large landowners who already have plans for TOD: Kamehameha Schools and Honolulu Community College. However, the perception of crime presents a critical constraint that will need to be addressed.

From an implementation perspective, TOD can be encouraged if the City, together with the State of Hawaii, is able to adopt a consistent, well-coordinated set of policies that removes regulatory barriers, prioritizes key infrastructure improvements, and (to the extent possible) assists in lowering the costs of, and providing more certainty for, private development. These policies may include flexibility in meeting parking requirements and priority funding for projects in TOD areas.

Environmental Constraints

The environmental constraints evaluated include hazardous materials, flooding, and sea level rise. Fire hazards, erosion, and seismic risk are deemed to be low and are not discussed here. Infrastructure constraints are discussed separately in Chapter 5: Public Facilities, Services, and Infrastructure. Figure 2-2 describes potential environmental hazards that could affect development potential. Further site-specific analysis may be required before development can take place.

Hazardous Materials

Given the industrial nature of much of the Kalihi corridor, hazardous materials, such as lead and petroleum, exist on sites due to past or present activities. The presence of hazardous materials can pose air quality and fire threats, add time and cost to redevelopment, or make certain uses infeasible due to their sensitive users (such as residential units or schools). The State Department of Health Hazard Evaluation & Emergency Response Office maintains an inventory of known and potential hazardous materials sites, including clean up completed to date, additional clean up required, and ongoing assessments. Compliance with this and other State regulations are necessary before embarking on development projects. Federal and State grants are, however, available to help remediate brownfields. Approximate locations are illustrated on Figure 2-2.



Narrow rights-of-way, small lots, and the need for infrastructure improvements are challenges to redevelopment in the Kalihi station area (top, middle). Middle Street and Kapalama (bottom) station areas have larger opportunity sites but will need substantial investment to add new streets and pedestrian amenities.

Flooding

Flooding could occur as a result of storms, sea level rise, or tsunamis in some portions of the ½-mile area, particularly in the Middle Street station area. As of January 19, 2011, the City and County of Honolulu adopted revised Flood Insurance Rate Maps (FIRM). Most of Kalihi and Kapalama station areas were identified as being in Zone X, defined as “areas determined to be outside the 0.2 percent annual flood (500-year) chance.”

The Middle Street station area is affected by FIRM mapping, as shown on Figure 2-2. Large portions of the station area have minimum finished floor elevation requirements related to AE zones and AO zones. These zones are subject to a one percent annual flood (100-year). AE zones designate the minimum finished floor elevation (up to 13 feet in the area makai of Nimitz Highway). AO zones designate the required feet a finished floor must be above existing ground (up to three feet around Middle Street station). In addition, flood insurance rates carry a higher premium when in AE and AO zones.

Within potential flood zones, the City requires flood certification to be prepared by a qualified professional to certify that construction of improvements meet the flood hazard district regulations of the zoning code, conform to flood elevations of FIRM, are adequate to resist regulatory flood forces, and do not adversely increase flood elevations or affect flooding on surrounding properties.

Sea Level Rise

The University of Hawaii Coastal Geology Group researchers predict that up to one meter (just over three feet) of sea level rise may be plausible by 2100. Initial modeling suggests that three feet of sea level rise at mean higher high water height (the average of only the higher of the high water heights) could inundate areas makai of Dillingham Boulevard near the Kapalama station, along Kapalama Canal, and the Middle Street station area makai of Nimitz Highway if no protection measures are put in place.

Sea level rise will need to be addressed on a regional and statewide scale since it has implications beyond the scope of this neighborhood plan. The Oahu Metropolitan Planning Organization has been working to identify and prioritize assets for protection, including Honolulu Harbor and Honolulu International Airport.

The Kalihi Neighborhood TOD Plan supports mitigation of, and adaptation to, global climate change and sea level rise. Its emphasis on developing walkable station areas and access to transit will have the effect of reducing vehicle miles traveled and the corollary greenhouse gas emissions that are known to contribute to climate change.



Kapalama Canal serves as a drainage facility but could be upgraded with a promenade to control erosion and create a recreational amenity to serve students and staff at Honolulu Community College (at right) and to attract new development and users, as the River Walk in San Antonio and the Vancouver waterfront have done..





Two historic properties along King Street are the Palama Fire Station (top) and Kaumakapili Church (above).

Historic and Cultural Resources

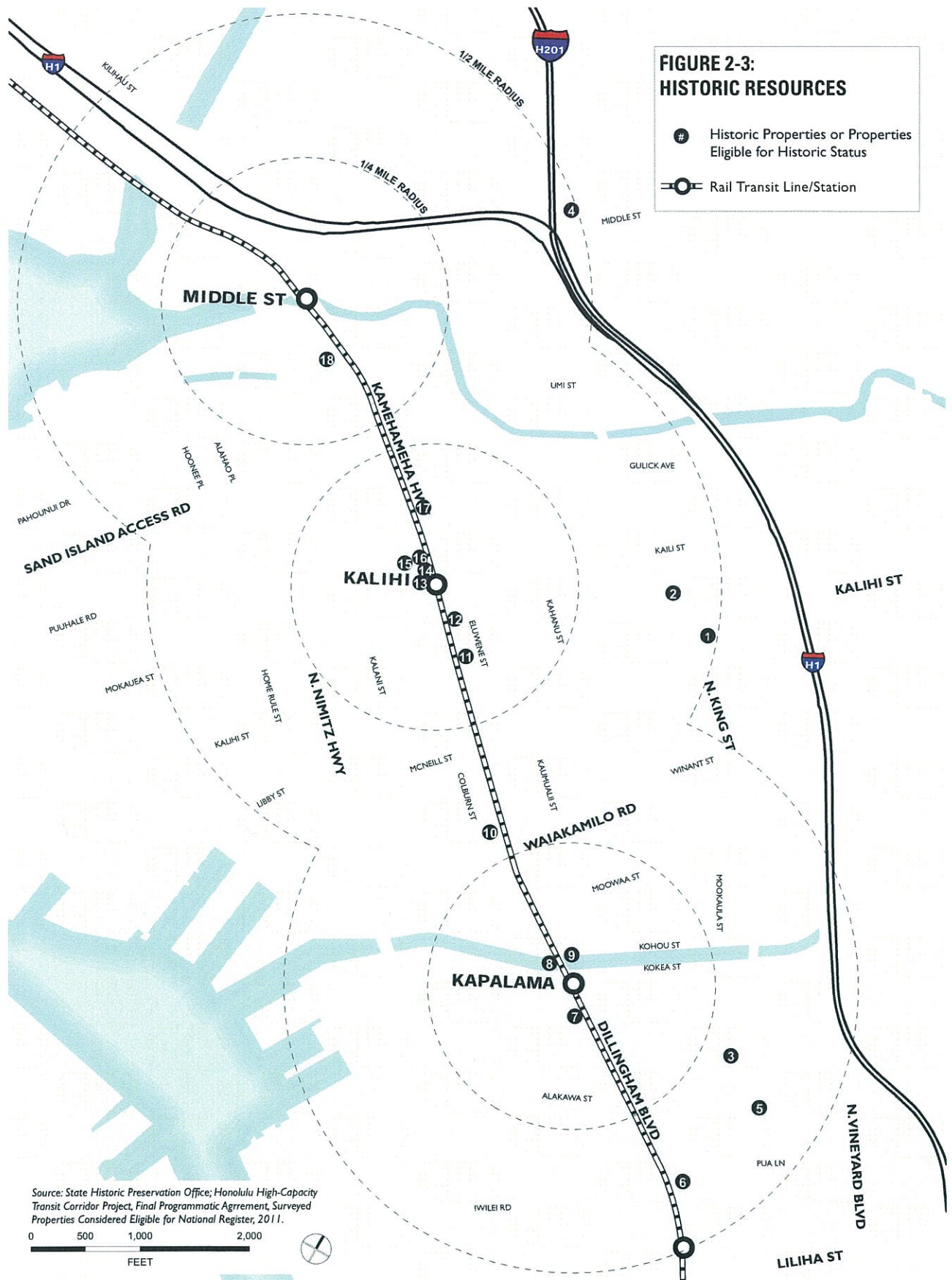
Historic and cultural resources are essential parts of the character and identity of a place. There are several properties within a ½-mile of the stations designated as historic or eligible for listing on the State or National Register of Historic Places, as shown in Table 2-2 and Figure 2-3. Registered historic properties are clustered along North King Street. Several properties that may be eligible for historic status are also shown. The TOD Plan encourages the preservation and reuse of historic resources. Buildings may be preserved and improved through adaptive reuse, allowing new businesses to occupy historic structures.

Cultural resources include properties that yield information important to Hawaiian prehistory or history. According to the Final EIS for the rail project, there is high potential for archeological resources and burial sites in the Kalihi corridor. The State's constitution recognizes the value of conserving and developing historic and cultural property for the public good, declaring historic and cultural heritage of the state among its most important assets. Any significant historical properties—whether architectural, archaeological, or cultural—identified during the development process will have to comply with federal, State, and local preservation laws and regulations.

TABLE 2-2: HISTORIC RESOURCES

| MAP ID | NAME | HAWAII REGISTER | NATIONAL REGISTER | ELIGIBLE |
|--------|----------------------------|-----------------|-------------------|----------|
| 1 | Farrington High School | √ | | |
| 2 | Kalihi Fire Station | √ | √ | |
| 3 | Palama Fire Station | √ | √ | |
| 4 | Fort Shafter, Palm Circle | | √ | |
| 5 | Kaumakapili Church | | √ | |
| 6 | Kamani Trees | | | √ |
| 7 | Quonset Huts | | | √ |
| 8 | Lava Rock Curbs | | | √ |
| 9 | Kapalama Canal Bridge | | | √ |
| 10 | Boulevard Saimin | | | √ |
| 11 | Duarte House | | | √ |
| 12 | 10 Courtyard Houses | | | √ |
| 13 | Teixeira House | | | √ |
| 14 | Higa Four-Plex | | | √ |
| 15 | Pang Craftsman-style House | | | √ |
| 16 | Afuso House | | | √ |
| 17 | Pu'uhale Market | | | √ |
| 18 | Gaspro Store | | | √ |

Source: State Historic Preservation Office; Honolulu High-Capacity Transit Corridor Project, Final Programmatic Agreement, Surveyed Properties Considered Eligible for National Register, 2011.



2.2 Development Framework

The TOD Plan land use framework provides the foundation for development around the stations. The Land Use Plan (Figure 2-4) presents the community vision of a livable urban community with a range of uses that reflect the area's central location and rich cultural heritage, and that support transit ridership.

In the Middle Street station area, the TOD Plan maintains the existing industrial and commercial designations, but allows for a greater mix of residential and commercial uses. The residential neighborhood mauka of the Kalihi station is preserved and enhanced with opportunities for higher-density housing and a greater mix of uses along Dillingham Boulevard. The most substantial land use changes are proposed in the Kapalama station area, where new residential uses along the canal and a new mixed-use district makai of the station are envisioned. Land use designations for the Iwilei station area are shown for reference and described in more detail in the Downtown Neighborhood TOD Plan.

TOD Zone

As described in Chapter 1, the TOD Plan establishes a more focused Transit-Oriented Development Zone ("TOD Zone") within the ½-mile radius of the stations. The TOD Zone encompasses sites that have the most potential to support transit ridership and take advantage of transit proximity. Sites within the TOD Zone can generally be accessed from a station on foot in fewer than ten minutes. As shown in Figure 2-4, the TOD Zone is generally bounded by Nimitz Highway, Middle Street, blocks makai of King Street through the Middle Street and Kalihi station areas, and King Street/Kanoa Street through the Kapalama station area. Sites within the TOD Zone are subject to TOD Special District regulations (detailed in the Land Use Ordinance) and may be eligible for incentives for development adjacent to transit.

Land use, maximum building intensity, and maximum building heights are identified for sites in the TOD Zone in the subsequent pages. Note that building intensities and heights are designated separately from

land use, enabling the three development features to be combined as needed for various sites in the planning area.

Land Use Classifications

Figure 2-4 shows land use designations and Table 2-3 describes these designations, including typical uses. Specific allowed uses will be regulated through a TOD Special District in the Land Use Ordinance, which will also reflect the building intensities and height limits established in this plan. Together with the policies at the end of this chapter, the following table and the land use, height, and intensity diagrams represent adopted City policy.

Active Ground-Floor Frontage and Pedestrian-Oriented Design

The Plan seeks to create concentrated areas of vitality by identifying streets where "active" ground-floor frontages are required. Active uses include uses that allow window shopping and entice customers inside with visible entrances, such as: retail stores, restaurants and cafés, markets, personal services (e.g. salons, banks), bars, theaters, or galleries. Figure 2-5 identifies frontages (generally limited to areas designated as Urban Mixed Use) where active uses are required. Dillingham Boulevard, Kohou Street, and streets near Kapalama station are prioritized since high levels of pedestrian activity and visibility are anticipated in these areas.

While the entire TOD Zone should be comfortable and attractive to pedestrians, Figure 2-5, also indicates areas where the pedestrian experience is top priority. In this area, uses need not be active, but they must exhibit design that anticipates and accommodates pedestrian traffic. All uses, including residential, office or hotel, must be legible as such from the sidewalk, and buildings must be designed at the pedestrian scale. The ground floor should include features such as transparency; clearly-marked entrances; accessible and inviting lobbies; stoops; porticoes; or public plazas. See Chapter 4: Urban Design, Section 4.2 for more detail about pedestrian-oriented design.



"Active" ground-floor frontage may take the form of markets or cafés, where windows, articulation, and signage engage customers, encourage window shopping, and help to create a pedestrian-oriented land use pattern, as depicted on King Street (left) and Fort Street Mall (right).



Commercial office/lab space may be developed in the longer term and should accommodate new industries with large floor-plate needs and smaller tenant spaces, as shown in these Palo Alto, CA (left) and San Mateo, CA (right) examples.



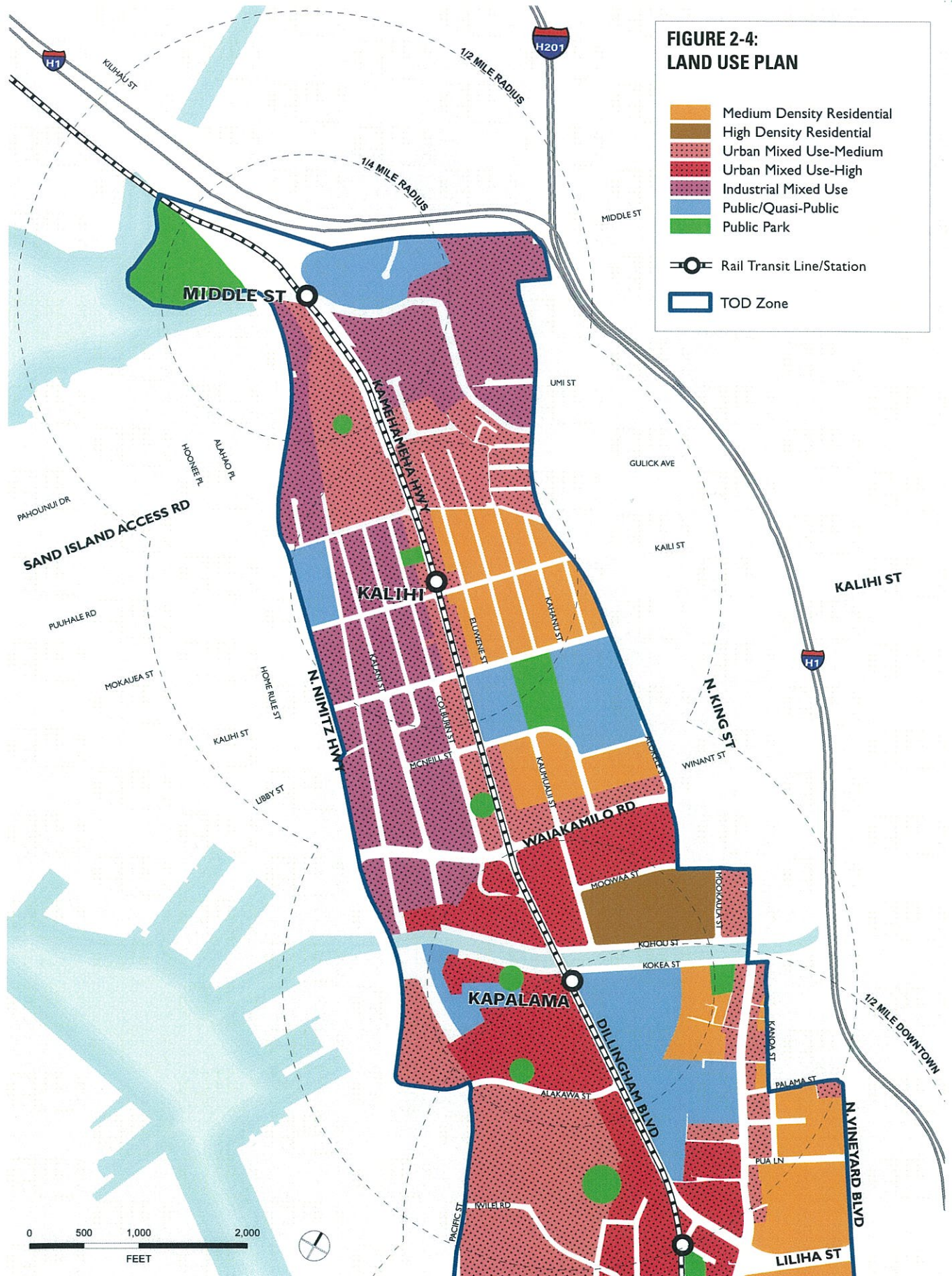
Allowing a variety of housing types and densities, such as where townhomes front taller buildings, ensures that high-density districts are livable, vital, and scaled to the pedestrian, as shown in these San Diego, CA examples.

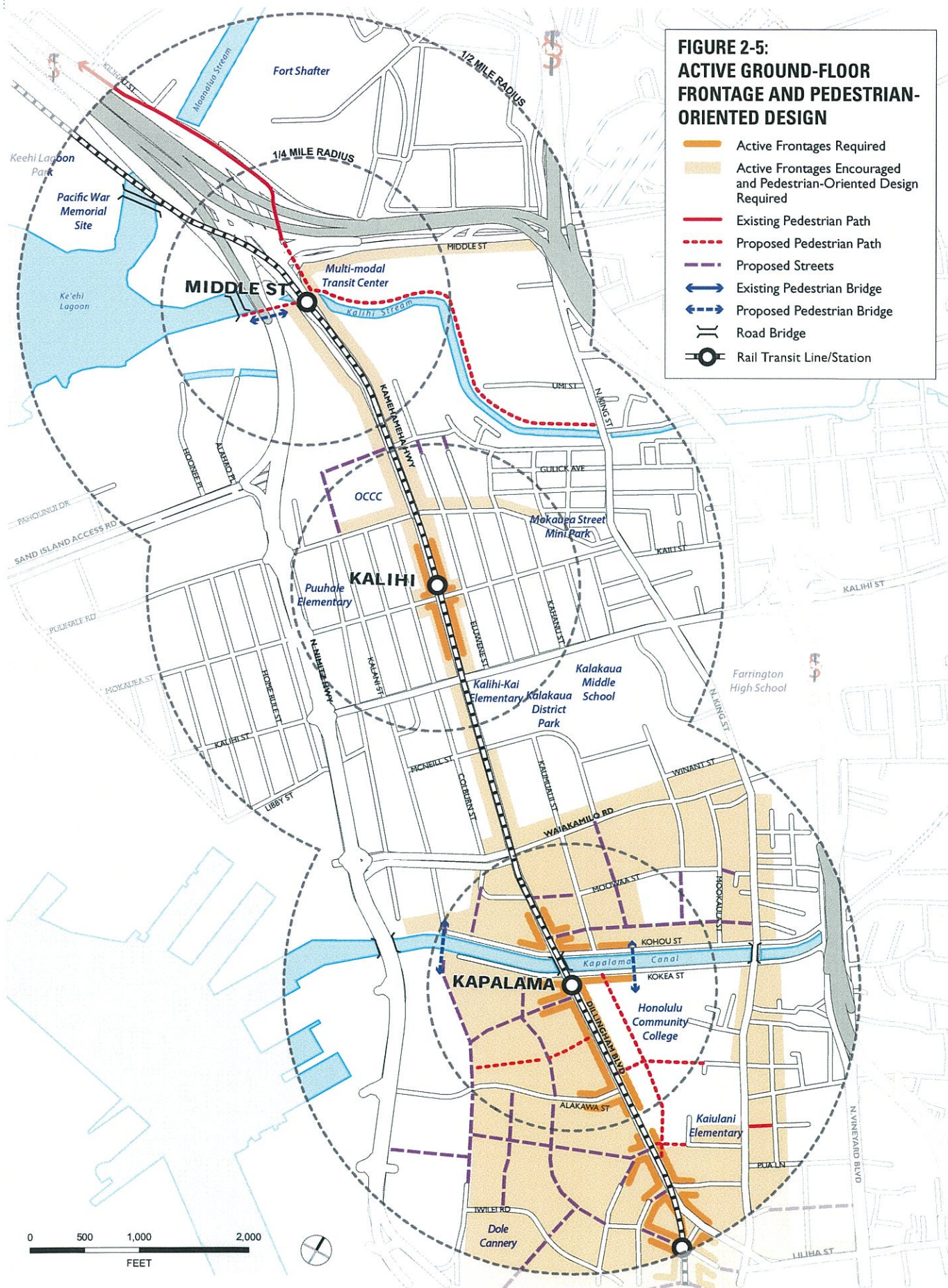
| TABLE 2-3: LAND USE DESIGNATIONS | | |
|----------------------------------|----------------------------|--|
| | LAND USE DESIGNATION | DESCRIPTION |
| | Medium Density Residential | Allows urban residential development typically in a low- to mid-rise setting with adequate public facilities and infrastructure. |
| | High Density Residential | Allows high-density residential development in an urban setting, typically in mid- to high-rise buildings, with adequate public facilities and infrastructure. |
| | Urban Mixed Use-Medium | A lower intensity classification of Urban Mixed Use to create a medium-density mixed-use district and a transition to lower intensity uses. Supports medium-density housing in a neighborhood setting with a mix of commercial, residential, and public uses. Supports a mix of uses, either horizontally or vertically and single-use projects (i.e., 100% residential or 100% non-residential). |
| | Urban Mixed Use-High | Accommodates a diverse array of uses, including a mix of commercial, residential, live/work, research and development/lab, and public uses immediately adjacent to the Kapalama station and the rail corridor to create a high-density mixed-use district (outside the central business district). Supports a mix of uses, either horizontally or vertically, as well as single-use projects (i.e., 100% residential or 100% non-residential). |
| | Industrial Mixed Use | A mix of commercial and industrial uses allowing a range of business and employment opportunities. |
| | Public/Quasi-Public | Intended for a variety of public and quasi-public uses, including schools, community services, and transit stations. |
| | Public Park | Intended for public open space, parks, recreation, promenades, and greenways for the general community. |

Source: Dyett & Bhatia, 2012.



Mixed-use designations accommodate a range of uses that support neighborhood vibrancy at various times of the day and week.





Building Intensity

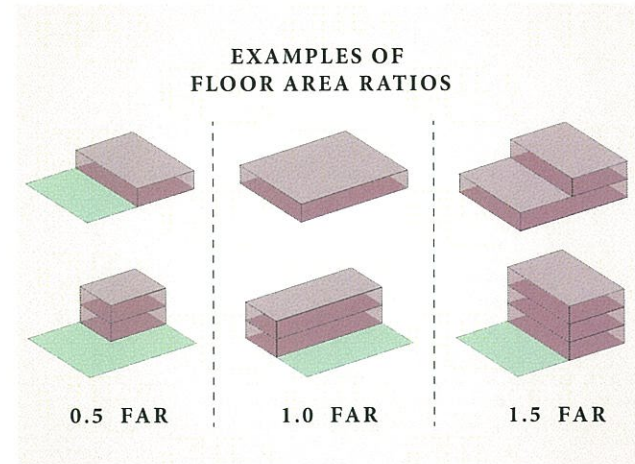
Achieving development intensities that create vibrant and walkable communities is a central tenet of TOD. Figure 2-6 illustrates maximum building intensities for the TOD Plan. Existing allowable buildings intensities are attached as an appendix for reference. Intensity is expressed as floor area ratio (FAR), which measures the ratio of building square footage to land square footage. For example, an allowable FAR of 2.0 means that for every square foot of land, a developer may build two square feet of building area. However, this does not necessitate a two-story building that covers the entire site. As shown in the accompanying graphic, there are many different ways to achieve the same FAR.

The highest intensities in the TOD Plan are proposed in the Kapalama station area. Allowable intensities decline with distance from the station. Moderate intensities are shown around the Middle Street station, while the lowest intensities are depicted in the residential neighborhood mauka of the Kalihi station. Intensities outside the TOD Zone are based on existing zoning.

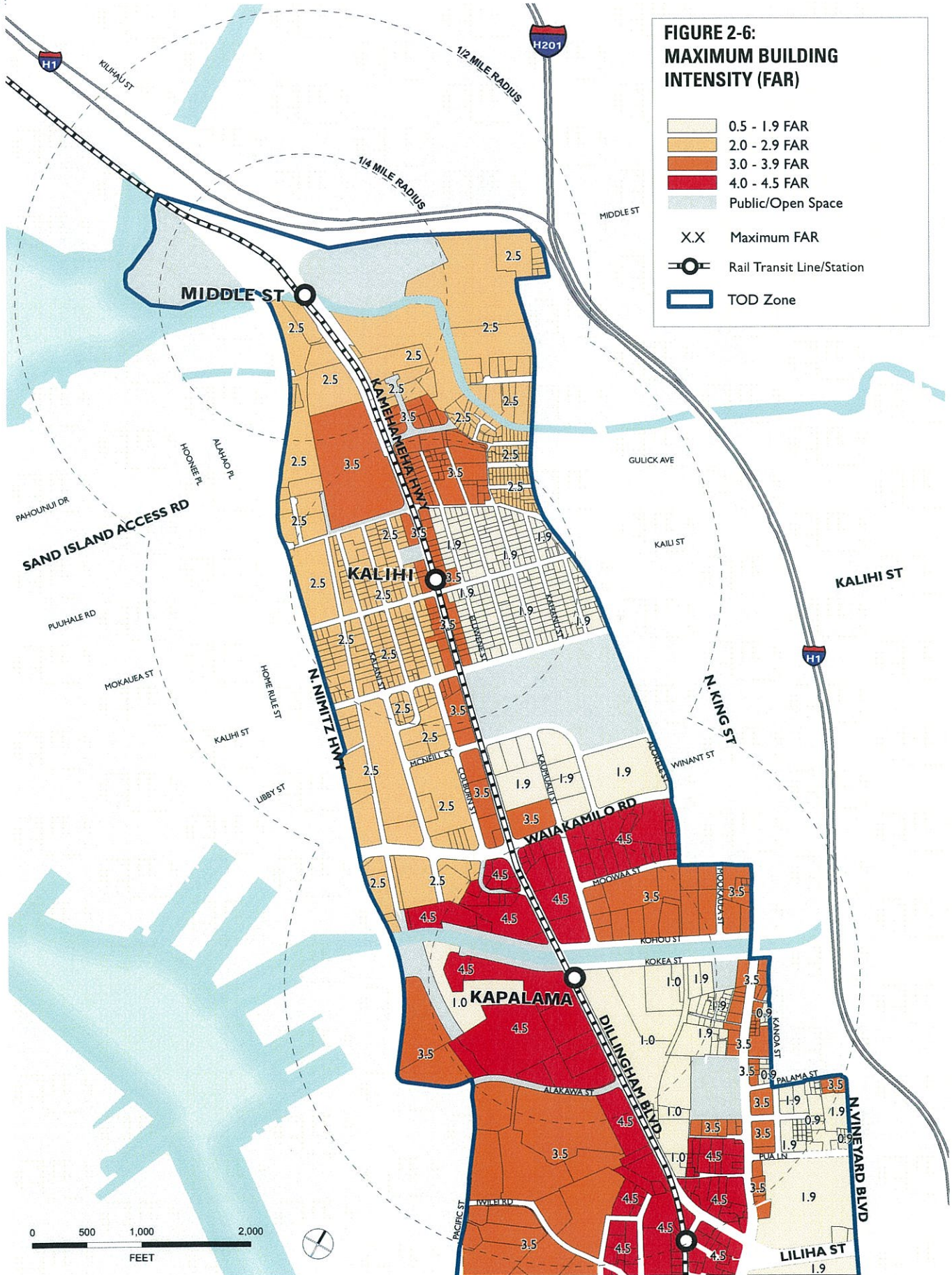
Building Heights

Figure 2-7 illustrates proposed maximum building heights in the TOD Plan. These heights, together with FAR, setbacks, building massing, and other site planning requirements (described in the City's Land Use Ordinance) influence the bulk and design of a development. Existing allowable buildings heights are attached as an appendix for reference. The tallest building heights are proposed in the Kapalama station area, stepping down away from the station and toward the waterfront. Building heights are moderately high around the Middle Street station and along Dillingham through the Kalihi station area where a greater mix of uses is proposed.

Per CFR Part 77, the Federal Aviation Administration may require Notification of Proposed Construction or Alteration (FAA Form 7460-1) for structures within the maximum building height limit.



Building heights and intensities will remain fairly low in the Kalihi station area to preserve existing uses and character, while allowing for some revitalization. Building heights and intensities are expected to increase somewhat in the Kapalama and Middle Street station areas given the new mix of uses desired.





A three-dimensional computer model was prepared as part of the planning process to analyze how various height and intensity regulations could influence development and to ensure compatibility with existing buildings. Renderings are shown here to illustrate how future buildings may appear. In addition, illustrative

drawings show how development consistent with the land use framework, including density and height regulations, could look and feel from a pedestrian's perspective at street level. Since multiple design solutions are possible, these drawings are hypothetical and are not intended to show the exact nature of future development.



View of the Kalihi corridor, looking due north. Building color corresponds to the land use designations on the Land Use Diagram.



View of Kapalama station area, looking north.

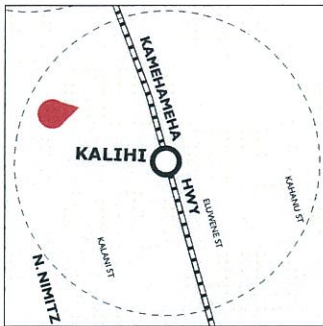


FIGURE 2-8:
ILLUSTRATIVE VIEW, LOOKING MAUKA FROM PUUHALE ROAD



Existing



Conceptual illustration of Puuhale Road in the Kalihi station area. Enhanced streetscapes and crosswalks within mixed-use development transform the area into a busy, walkable district with a mix of business and employment opportunities, residences, and neighborhood-serving retail.

2.3 Potential Development

Methodology

Development potential is summarized in terms of the building floor area and housing units that can be expected with implementation of the TOD Plan, as well as an estimated number of new residents and jobs. The potential is calculated based on the existing/future land uses shown on the land use maps, assumptions for intensity and use mix, lot coverage and allowances for new streets and open space, the likelihood of redevelopment (i.e., vacant sites are assumed to be more likely to redevelop than underutilized sites), and existing development on opportunity sites that would be lost due to redevelopment.

The three-dimensional diagrams on previous pages and the potential development projections below assume a realistic amount of development over time, as opposed to a maximum permitted by the Plan, as it is unlikely that every site will build out to the maximum intensity permitted. Sites that are currently vacant or have been specifically identified by the City, stakeholders, or property owners are assumed to have a high level of redevelopment potential—about 80 percent of these sites are expected to redevelop. Sites with low densities and/or low building values are illustrated as having a moderate level of redevelopment potential. In general, about 65 percent of the sites that have been identified as opportunity sites are assumed to redevelop over the next 20 to 30 years.

Potential Buildout

Table 2-4 describes potential new development around the rail stations. TOD could result in approximately

6,000 additional housing units (primarily in the Kapalama/Iwilei station area), which translates to 14,500 new residents based on the City's projections for future household size. In terms of non-residential development, TOD could result in a 352,000 square feet increase in retail development and 451,000 square feet of additional office and light industrial development (including lab and R&D space), potentially producing about 1,900 new jobs. Finally, 37 acres of new parks, open spaces, and paths are included in the TOD Plan. These open spaces are discussed in more detail in Chapter 4: Urban Design. In addition, Chapters 3 and 5 review the potential impacts and necessary transportation and infrastructure improvements that will need to be developed concurrently.

These new development values reflect the level of development that can be absorbed from transit-oriented development, based on the assessment of market data and real estate conditions. As described in Section 2.1 above, the market demand analysis estimated that the Kalihi corridor could support +/- 4,000 new dwelling units, +/- 465,000 square feet of retail, and +/- 575,000 square feet of office by 2035. The development potential described here falls within these ranges, while leaving some flexibility in the distribution between the Kalihi corridor and the adjacent Downtown corridor, for which a separate TOD plan has also been prepared.

The planning areas for the Downtown and Kalihi TOD Plans overlap around the Kapalama and Iwilei station areas by approximately 1,200 dwelling units, 13,000 sq. ft. of retail, 4,000 sq. ft. of office/R&D, and eight acres of parks. If the reader is interested in the total development potential for all six stations, the values above must be subtracted out to avoid double counting.

TABLE 2-4: KALIHI TOD PLAN DEVELOPMENT POTENTIAL

| | RESIDENTIAL (DWELLING UNITS) | COMMERCIAL RETAIL (SQUARE FEET) | OFFICE/R&D/ LIGHT INDUSTRIAL (SQUARE FEET) | PUBLIC USES/PARKS (ACRES) |
|---|---------------------------------|------------------------------------|--|------------------------------|
| Existing Development | 3,700 | 4,196,000 | 714,000 | 8.5 |
| <i>Iwilei Station Area (Net New)</i> | 1,012 | 7,950 | 26,676 | 4 |
| <i>Kalihi Station Area (Net New)</i> | 853 | 90,607 | 193,729 | 9 |
| <i>Kapalama Station Area (Net New)</i> | 4,088 | 199,086 | 151,792 | 19 |
| <i>Middle Street Station Area (Net New)</i> | 40 | 54,676 | 79,037 | 4 |
| TOD Plan (Net New) ^{1,2} | 6,000 | 352,000 | 451,000 | 37 |
| GROSS FUTURE DEVELOPMENT² | 9,700 | 4,548,000 | 1,165,000 | 45.5 |

1. The planning areas for the Downtown and Kalihi TOD Plans overlap around the Kapalama and Iwilei station areas by approximately 1,200 dwelling units, 13,000 sq. ft. of retail, 4,000 sq. ft. of office/R&D, and eight acres of parks. If the reader is interested in the total development potential for all six stations, these values must be subtracted out to avoid double counting.

2.4 Goals and Policies

As described in Chapter 1, the community vision and guiding principles provide a foundation for all components of the TOD Plan. The goals and policies below provide more detailed objectives and direction to guide City departments and decision-makers implementing the plan through amendments to the Land Use Ordinance, the Capital Improvement Program, or other means. Chapter 6: Implementation provides a summary of responsible agencies and departments.

GOALS

Land Use

- LU-G1:** Foster vibrant districts that build on the unique character and opportunities of each station area; enhance Kalihi's sense of community, ethnic culture, family-orientation and diversity; and improve quality of life and public safety.
- LU-G2:** Revitalize the Middle Street station area as a regional hub for multi-modal transportation and waterfront parks, expand uses in the area, and establish a new residential neighborhood between the Middle Street and Kalihi stations, catalyzed by the transformation of the Oahu Community Correctional Center site.
- LU-G3:** Maintain the character and fabric of the existing residential neighborhood mauka of the Kalihi station, while encouraging new higher-density residential uses, neighborhood-serving retail, and upgrades to existing properties to create a more vibrant neighborhood.
- LU-G4:** Guide transformation of the Kapalama district into a new mixed-use high intensity/high-rise, pedestrian-oriented neighborhood, capitalizing on its pivotal location adjacent to Downtown/Chinatown and role as the gateway to the Kalihi neighborhood.
- LU-G5:** Expand housing opportunities with a range of housing types—townhomes, mid-rise, and high-rise—to create a new mixed-income neighborhood in Kapalama with a full range of amenities and services, including parks and open space, a promenade along the canal and a walkable street grid. (Affordable housing policies are described in Chapter 5.)

- LU-G6:** Establish a TOD Zone that extends approximately a five- to seven-minute walking distance around each station, as shown in Figure 2-4, to foster transit-oriented development, prioritize streetscape and other public realm improvements, and focus community investment.

Building Intensity and Height

- LU-G7:** Create a varied skyline with the highest heights and intensities in the Kapalama station area and on North King Street, stepping down toward the waterfront, industrial areas, and the Kalihi station area, and rising up, but more moderately, to create a mid-rise node around the Middle Street station.

Economic Development

- LU-G8:** Enable a wide range of economic activities, from high-tech and lab development in the Kapalama station area to small lot/small businesses development in the Kalihi station area to industrial and commercial industries in the Middle Street station area that capitalize on exceptional access to freeways, the airport, and Sand Island to attract and support harbor- and airport-related businesses.
- LU-G9:** Retain and foster the growth of Honolulu's small businesses that provide economic and employment opportunities for Kalihi and island residents.

POLICIES

Land Use

MIDDLE STREET STATION AREA

- LU-P1:** Foster transit ridership at the intermodal station by allowing uses such as cafés and convenience stores that promote vibrancy in the immediate station area.
- LU-P2:** Coordinate with the Department of Transportation, Department of Land and Natural Resources, and Department of Parks and Recreation to create a waterfront park on the peninsula in Keehi Lagoon and improve public access from the station to existing and future waterfront park space.

LU-P3: Maintain industrial and warehouse uses makai of Nimitz Highway, but permit a wider range of uses—commercial and industrial—through the Industrial Mixed Use designation adjacent to the station. Ensure that new development responds to potential flood risk, as shown on Figure 2-2, consistent with City regulations.

LU-P4: Coordinate and communicate with the Department of Public Safety about the status of the Oahu Community Correctional Center and the potential for consolidation or relocation through a land swap or other means. In the long-term pursue redevelopment of the site into a new mixed-use community that includes a new park, housing, and community services (e.g. medical care).

KALIHI STATION

LU-P5: Allow higher-density residential development and lot consolidation mauka of Dillingham Boulevard within the Medium Density Residential designation, as shown on Figure 2-4, and encourage multi-family housing that can accommodate large household sizes.

LU-P6: Encourage home improvements, particularly mauka of Dillingham Boulevard:

- Continue code compliance and notice to abate on properties in disrepair and out of compliance with City code.
- Improve marketing of City programs, such as the home repair loans, to encourage property improvements.
- Assess the feasibility of a program and process by which property owners could be granted amnesty for a period of time to bring properties up to code without necessitating off-site improvements unrelated to fire and life safety.

LU-P7: Cluster neighborhood-oriented commercial uses such as restaurants, day care centers, and small grocery stores along Dillingham Boulevard to foster a sense of community and vitality around the station. Build on Kalihi's existing character with businesses that are multi-cultural, family-friendly, small, and locally-owned.

KAPALAMA STATION AREA

LU-P8: Promote the development of the Kapalama station area as a mixed-use walkable district with an educational hub at Honolulu Community College and a full complement of uses:

- A residential neighborhood with a range of housing types and affordability levels to accommodate people who work in the Kalihi corridor, Honolulu Community College students, seniors seeking housing near transit, families and professionals working Downtown;
- An employment center focused on high-tech, lab, and research and development uses, as well as spaces for small emerging businesses;
- Local-serving retail, destination shopping (e.g. big box stores) and entertainment activities; and
- New parks and open spaces that balance the high-intensity development and create identity for the district.

LU-P9: Allow a diverse range of retail establishments of any size provided that they are pedestrian-oriented and have active street frontages. Encourage developers to build upon big-box retailers within new, higher-density developments, such as two-story retail or mixed-use retail with offices or residential units on upper floors.

LU-P10: Accommodate parking for big-box retailers and other large commercial uses in parking structures or within new developments to enhance walkability and foster intensity within the TOD area.

LU-P11: Rezone sites to designations consistent with the Urban Mixed Use (High and Medium) designations as shown in the Land Use Plan (Figure 2-4) and classification system (Table 2-3).

ALL STATIONS

LU-P12: Maintain working harbor and port activities and jobs makai of Nimitz Highway.

LU-P13: Permit complementary retail uses and amenities on sites adjacent to or integrated with the rail stations, such as day care centers, food markets, pharmacies, and other daily services.

- LU-P14:** Require or permit active ground floor uses on key streets consistent with Figure 2-5. Active uses include uses that attract walk-in visitors and have a high degree of visibility (i.e., windows/transparency) from the street, such as retail stores, restaurants, cafés, markets, bars, theaters, personal services, and galleries.
- LU-P15:** Prohibit new auto-oriented establishments, such as drive-through establishments that create curb cuts and require substantial paved drive aisles.
- LU-P16:** Promote adaptive reuse of historic buildings and structures and encourage preservation and rehabilitation.
- Provide incentives such as streamlined permitting, tax credits or reductions, additional use allowances, transfer of development rights, and other public or private programs.
 - Advertise opportunities for adaptive reuse tax incentives and other benefits on the City's website.
 - Except for those concerning health and safety, remove regulatory constraints to preservation—for instance, the cost of upgrading infrastructure and utilities.
 - Require future development projects to comply with applicable State and federal historic preservation laws and regulations.
- LU-P17:** Identify specific park and open space locations in advance of rail operations to ensure that development proceeds in tandem with new open spaces. Proactively locate new parks that meet the design criteria and intent of the open space network (see Chapter 4) through a variety of mechanisms, including but not limited to:
- Acquisition: Use in-lieu fees to purchase properties and construct parks.
 - Dedication: Coordinate with developers and property owners in advance of project development to secure good locations for open spaces through dedication and tools such as development incentives and land swaps.

- Easements: Enable public access through permanent easements, while retaining private ownership and maintenance.
- Park Impact Fees: Determine appropriate impact fees on residential and non-residential development.

Building Intensity and Height

- LU-P18:** Permit maximum building intensities, as defined in the Maximum Building Intensity Diagram (Figure 2-7) and maximum building heights, as defined in the Maximum Building Height Diagram (Figure 2-7).
- LU-P19:** Focus the planning area's tallest building heights and greatest intensities in the Kapalama district. Taper heights down beyond the immediate station areas.
- LU-P20:** In the Kalihi station area, allow taller heights along Dillingham Boulevard to support transit access with new uses. Preserve the height and scale of development in the districts mauka and makai of Dillingham Boulevard.

Economic Development

- LU-P21:** Attract leading edge industries based in technology, medicine/life sciences, engineering, and media that provide good quality jobs with potential for career advancement to the Kapalama station area, where parcels are larger and can accommodate larger floor-plate buildings. Coordinate with local universities and existing businesses to understand the space needs of new enterprises.
- LU-P22:** Support small spaces and the continuation of small businesses and start-ups by accommodating incubator spaces and multi-tenanted buildings.
- LU-P23:** Build on the Kalihi corridor's existing industries, such as food-related businesses, wholesalers, craftspersons, and harbor- and airport related activities.

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3 MOBILITY

This chapter outlines strategies for developing an integrated multi-modal transportation network in the Kalihi corridor that will enhance community livability and also support rail transit ridership. The chapter identifies enhancements to the street network and fa-

cilities for all users, including but not limited to pedestrians, bicycles, automobiles and transit riders, that will improve connectivity, safety, and ease of travel, as well as enhance overall quality of life for residents, workers, and visitors.



Developing a comprehensive multi-modal circulation network will be essential to enabling safe, convenient access between the rail stations and jobs, homes, schools, shopping, and other destinations. The new Middle Street bus transit center, shown above, will provide easy access to the rail line.

3.1 Existing Circulation Network and Operations

This section describes the existing (as of 2012) circulation network and conditions in the ½-mile area around the three Kalihi stations. It also describes City and State plans that have been prepared or are underway, as well as deficiencies identified during the technical analysis phase of the project and articulated by community members through the household survey and at workshops and meetings. The improvements described in Section 3.2 respond to the context and deficiencies identified here.

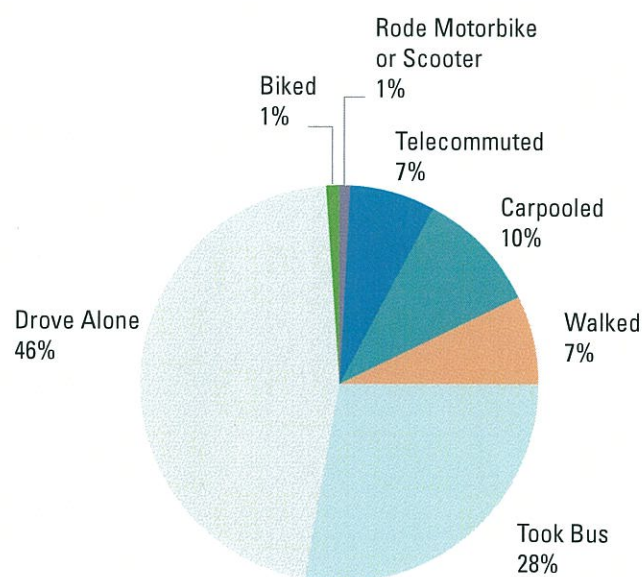
Travel Patterns

Kalihi already has a culture of transit use, evidenced by the relatively high rates of bus transit ridership among residents, as shown in the journey to work statistics in Table 3-1. Although 87 percent of households have one or more vehicles, according to respondents to the community survey, residents often prefer to use transit, whether due to convenience or low cost. Approximately 29 percent of commuters in Kalihi used public transportation to get to work, compared to eight percent of residents citywide.

These statistics are confirmed by the community survey completed as part of this planning effort (see Chapter 1

for details). As shown in Chart 3-1, approximately 28 percent of respondents used transit to get to work or school, seven percent walked, and one percent biked. Driving alone was the most frequently used mode of transportation, representing 46 percent of trips. Carpooling and telecommuting accounted for ten and seven percent of trips, respectively. Results did not vary substantially by station. This suggests that rail transit may be well utilized and successful when implemented.

CHART 3-1: OVERALL COMMUTE MODE SHARE, 2011



Source: Kalihi Community Survey, prepared for City and County of Honolulu Department of Planning and Permitting by National Research Center, September 2011.

TABLE 3-1: JOURNEY TO WORK MODE SHARE, BY LOCATION, 2000

| | DAILY PERSON TRIPS TO WORK, BY PERCENT | | | | OBSERVATIONS |
|-----------------------|--|----------|--------|-----|---|
| | KALIHI SUB-AREA | HONOLULU | HAWAII | US | |
| Drove Alone | 41% | 61% | 64% | 76% | Only NY and DC were lower than Hawaii. |
| Carpooled | 19% | 19% | 19% | 12% | Only two metro areas were higher than Honolulu. |
| Public Transportation | 29% | 8% | 6% | 5% | Six metro areas were higher than Honolulu. |
| Walk | 8% | 6% | 5% | 3% | Six states were higher than Hawaii. |
| Other Modes | 2% | 2% | 2% | 1% | |
| Worked at Home | 1% | 4% | 4% | 3% | |

Sources: City and County of Honolulu, Department of Planning and Permitting, 2000 Census SF 1 File. Journey to Work: 2000 - Census 2000 Brief; Clara Reschovsky, U.S. Department of Commerce, Economics and Statistics Admin., U.S. Census Bureau; tables 5 and 6, March 2004.

Street Network

The street network represents the foundation for the circulation system and all modes of travel. Buses, personal vehicles, bicycles and trucks share the roadways, and sidewalks, where present, line the roadways for pedestrian (and sometimes bicycle) travel. Circulation is provided by streets that generally comprise a grid-like network, especially around the Kalihi station. However, large industrial operations occupy large tracts of land in the vicinity of the Middle Street station, limiting mobility. Similarly, Kapalama Canal, bridged only by highway and arterials, and large commercial and industrial uses around Kapalama station result in large parcels and block sizes that are not pedestrian friendly.

Kalihi has good regional access to freeways, highways, and major arterials, as shown on Figure 3-1. The H-1 Freeway runs east-west along the mauka edge of the ½-mile area, and Nimitz Highway acts as the makai border. There are also on- and off-ramps to the H-1 at several points near Middle Street and mauka of King Street within Kalihi.

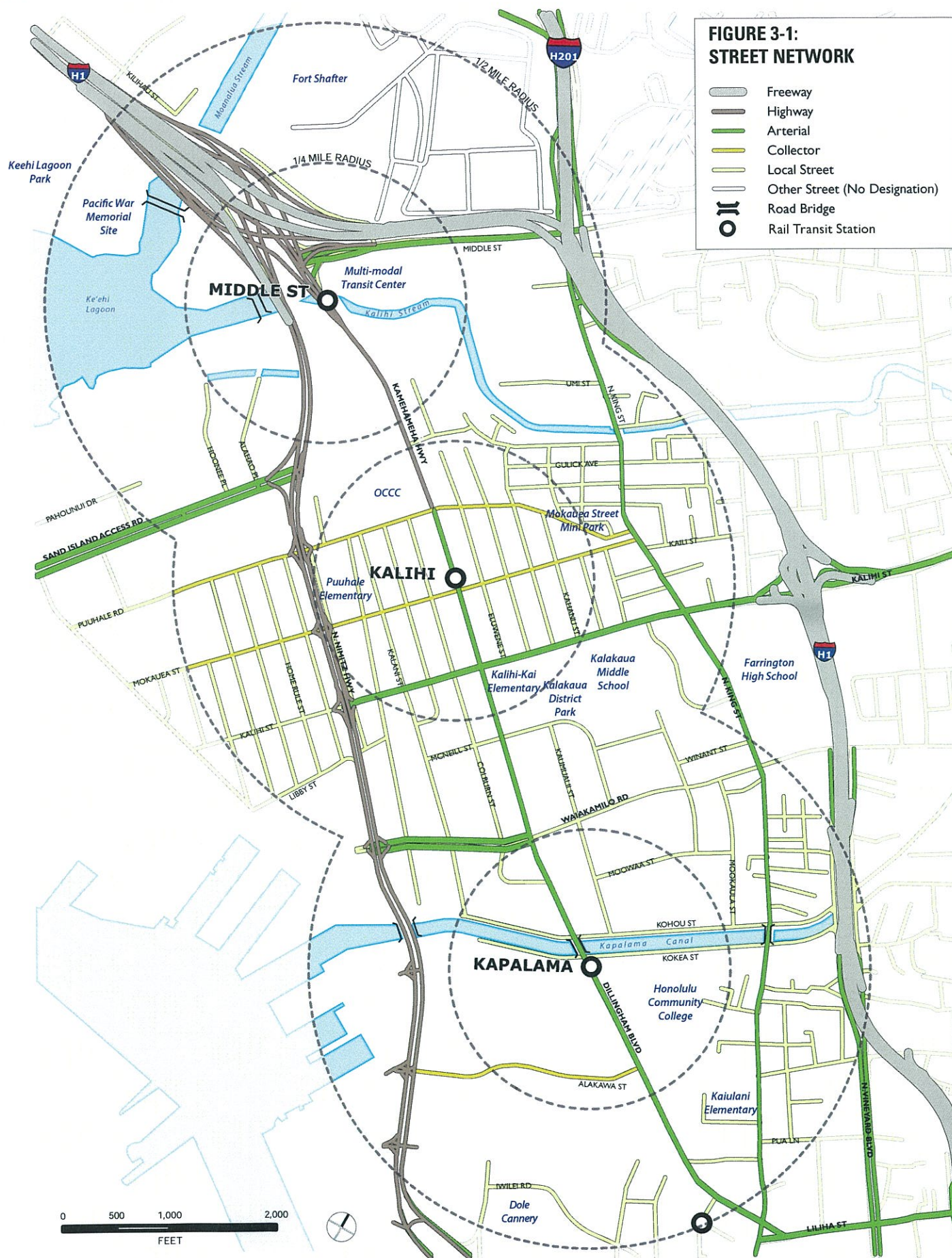
Nimitz Highway, Kamehameha Highway/Dillingham Boulevard, and North King Street are the principal high volume roadways that define the transportation network of the area. Dillingham Boulevard functions as both a local and regional arterial that provides access to adjacent commercial uses, as well as servicing through-traffic. It will also host the rail line through the corridor. Minor arterial streets that provide mauka-makai access between the interstate and principal arterials in the Kalihi neighborhood include Middle Street, Kalihi Street, and Waiakamilo Road.

Collector streets, including Puuhale Road, Mokauea Street and Alakawa Street, provide access to industrial, commercial and residential areas within the planning area.

According to the community survey conducted as part of preparing this plan, two-thirds of neighborhood residents rated traffic flow on local streets as fair or poor, and three-quarters identified the condition of local streets as fair or poor. These findings were fairly consistent for all three station areas.



Streets are shared by personal vehicles, buses, trucks, bicycles, and pedestrians, which often leads to competition for right-of-way and potential safety conflicts, as shown on Dillingham Boulevard. Ensuring that the circulation network is safe for all users is a priority of the TOD Plan.



Pedestrian Facilities and Station Access

Pedestrian facilities and safe, convenient access to transit are essential components of successful TOD. The introduction of the rail system and successful implementation of the Kalihi Neighborhood TOD Plan necessitate safe and convenient connections to transit, since approximately 74 percent of rail transit trips to Kalihi's three stations will begin as walking or biking trips by 2030, according to analysis completed for the rail transit project.

Hawaii is consistently ranked higher than most other states for pedestrian fatalities by the Fatality Analysis Reporting System, though the state also reports more trips by walking compared to other states. Pedestrian facilities in Kalihi are varied, and survey respondents rated pedestrian facilities as good to poor. Fewer than half of respondents rated the presence or condition of sidewalks and the overall safety of walking as excellent or good; satisfaction was lowest among respondents closest to the Middle Street station. Most telling, improving sidewalks was the number one priority for public improvements among respondents.

Statewide Pedestrian Master Plan

To address safety concerns and infrastructure deficiencies, the 2013 Statewide Pedestrian Master Plan identifies pedestrian mobility and safety needs on state facilities and roadways. Through a process that combined community mapping with data analysis of sidewalk/crosswalk conditions and accident reports, the Hawaii State Department of Transportation describes deficiencies, areas with high pedestrian accident rates, and proposed improvements. The master plan includes a toolbox to identify best practices for pedestrian safety, mobility, and accessibility, including layout of sidewalks and intersections, signaling, and design of streets near schools. It also defines potential funding sources for listed improvements, including federal, state, and local funding; improvement districts; and parking fees.

According to this plan, the highest priority pedestrian project in the Kalihi corridor is located on Kalihi Street between Dillingham Boulevard and North King Street, in part due to the high accident rate and proximity to Kalihi-Kai Elementary and Kalakaua Middle School, as described in Table 3-2.

TABLE 3-2: STATEWIDE PEDESTRIAN MASTER PLAN IMPROVEMENTS WITHIN THE 1/2-MILE AREA

| LOCATION | DESCRIPTION | PROPOSED IMPROVEMENT |
|---|--|---|
| Kalihi Station Area: Kalihi Street, between N. King Street and Dillingham Boulevard | Eight reported accidents involving pedestrians (2004-2008). The lack of crosswalks may not be the primary contributing factor, since there are crosswalks at most, if not all, street intersections along Kalihi Street. | Consider the consolidation of some of the crosswalks to a primary one across from Kalakaua Middle School, with the installation of a Rectangular Rapid Flash light-emitting diode Beacon (RRFB). The site would also benefit from enhanced crosswalk markings with wider white lines. |

Source: Highways Division, Department of Transportation, State of Hawaii. *Statewide Pedestrian Master Plan*, May 2013.

Sidewalk Conditions Inventory

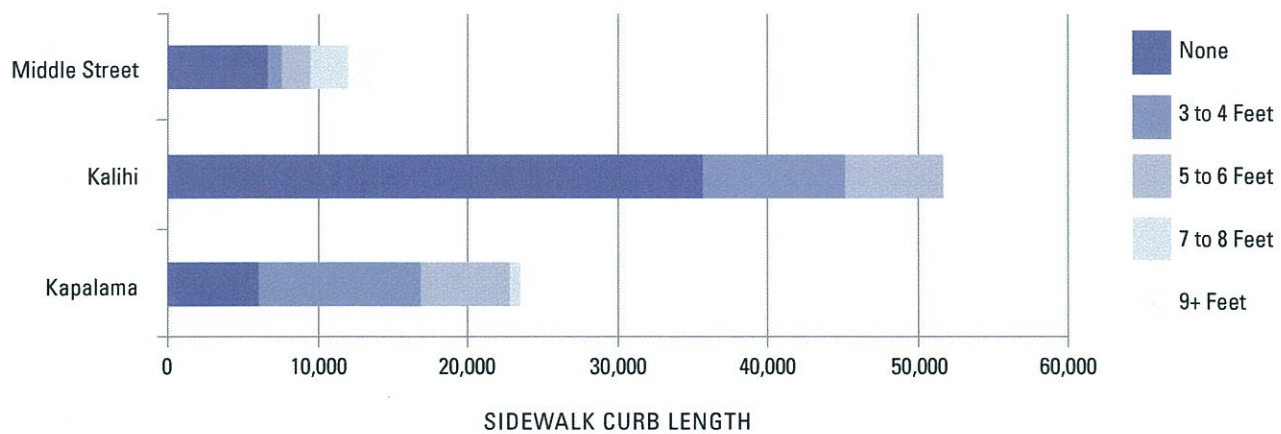
As part of this TOD planning process, an inventory of sidewalk and crosswalk conditions was completed on all streets within ¼-mile of each station to understand relative walking conditions.

Sidewalk conditions were categorized as follows: (1) no sidewalk, (2) 3-4 feet of effective width, (3) 5-6 feet of effective width, (4) 7-8 feet of effective width, and (5) 9+ feet of effective width. Effective width is defined as the amount of sidewalk that provides a continuously

unobstructed pathway with the exception of occasional temporary obstructions, such as illegally parked vehicles. Chart 3-2 provides a summary of this analysis.

Overall, 54 percent of all curb length within a ¼-mile of the three stations was found to lack sidewalks. Of the 70 crosswalks identified, most are concentrated in the Kalihi station area. Even where sidewalks are present, including along Dillingham Boulevard or adjacent to the future stations, they are not generous. Significant variations exist in the consistency and quality of the sidewalk network, as described for each station area.

CHART 3-2: SIDEWALK CURB LENGTH AND WIDTH, BY STATION, 2012



Source: Weslin Consulting Services, 2012.



Sidewalks are missing on most streets in Kalihi, creating actual and perceived safety concerns. Where sidewalks do exist, they are sometimes inadequate due to their narrowness and/or obstructions, such as utility poles and boxes.

Middle Street Station Area

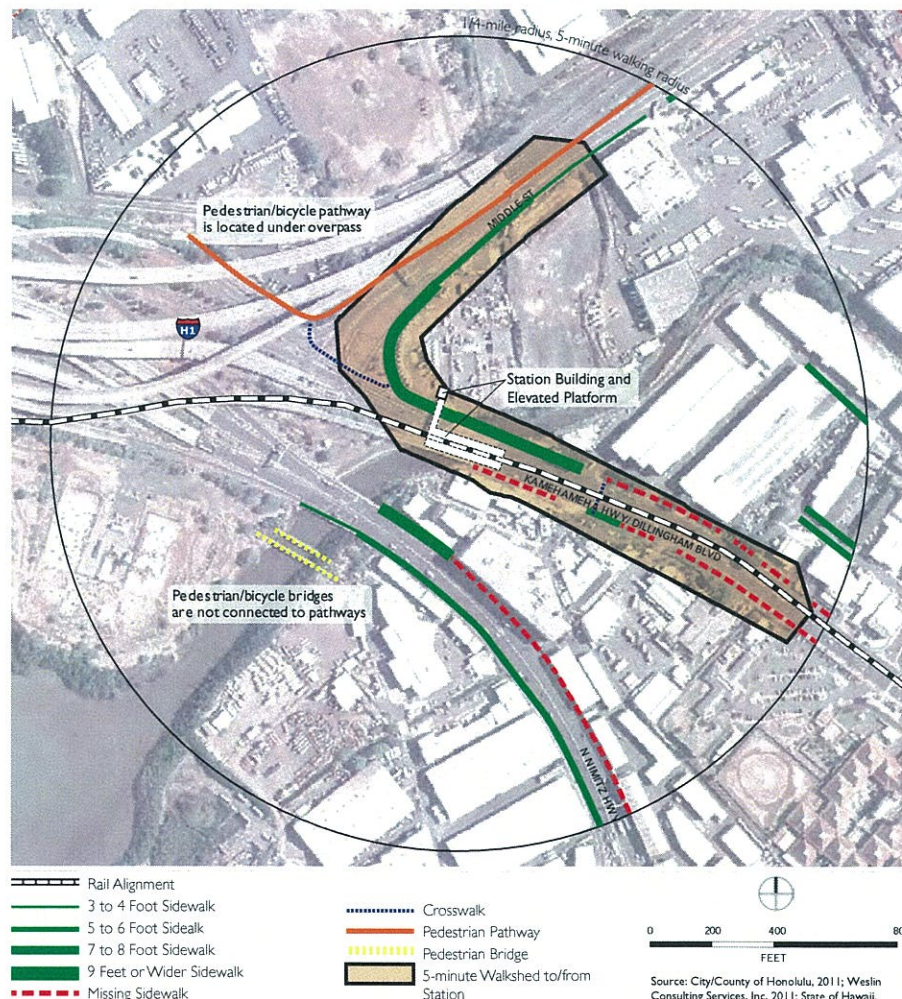
The Middle Street Transit Center station will be elevated above Kamehameha Highway where the roadway crosses Kalihi Stream. The station's elevated platforms and concourse level will include a pedestrian bridge crossing over the Ewa-bound lanes of Kamehameha Highway and to the center platform of the Middle Street Transit Center bus facility, which opened for service in 2012.

Pedestrian access to the future Middle Street station from the west is limited because of proximity to the highway interchange and ramp complex that gives priority to vehicular movement. However, this web of roadways also includes one of Oahu's best separated pedestrian/bicycle pathways, as shown in Figure 3-4. It is not well marked and suffers from a lack of maintenance, but its alignment from Radford Drive to Middle Street is a substantial facility. It provides access from the Mapunapuna area,

with its concentration of employment destinations, to the station location by way of four of the five crosswalks within the Middle Street station area. Pedestrian access is limited from the east because Kamehameha Highway is the only option for pedestrians, and both sides lack sidewalks. Pedestrian access is also limited, or blocked altogether, from the south and north by large land parcels with large buildings and no public roads.

The fact that 46 percent of all curb length in the Middle Street Transit Center station area does not have sidewalks does not fully convey the inhospitability of the area to pedestrians. The more telling statistic is that the total amount of curb length in this area is less than one-third of what is found in the Kalihi station area. In other words, and as shown on Figure 3-4, pedestrians have few streets to walk on—and fewer destinations to walk between—regardless of whether they have sidewalks or not.

FIGURE 3-2:
MIDDLE STREET STATION LOCATION AND PEDESTRIAN CONDITIONS



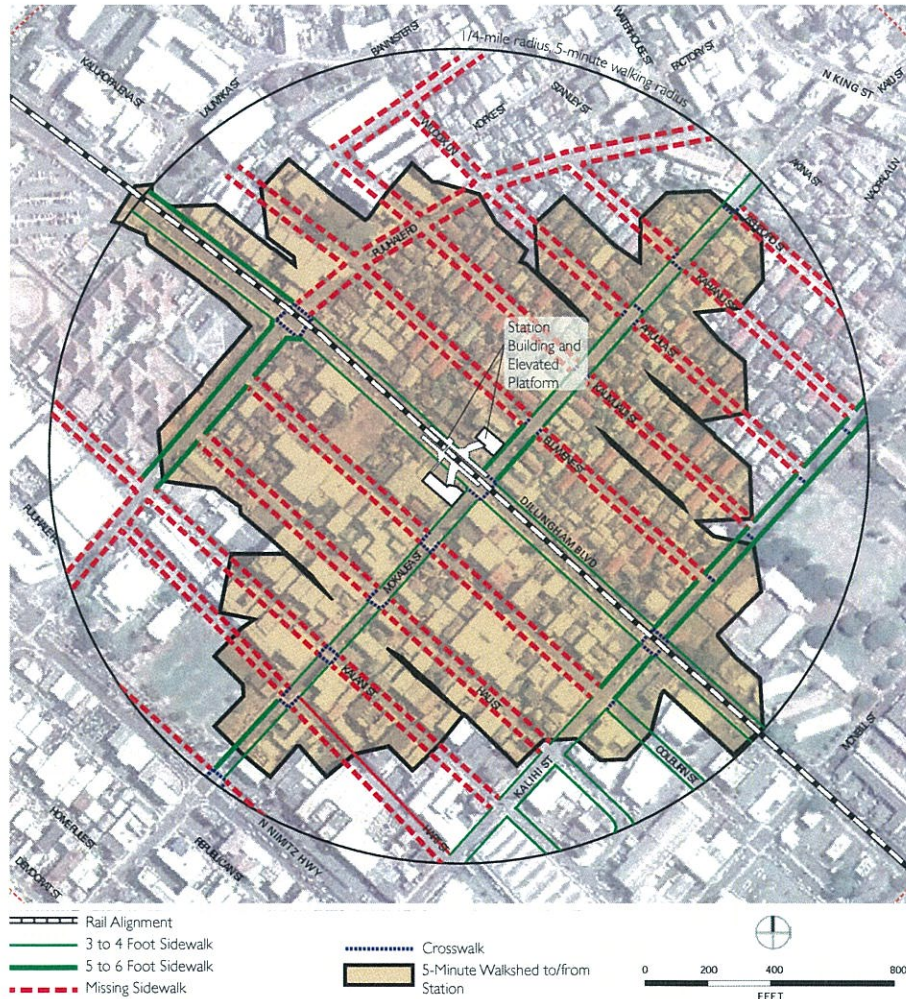
Kalihi Station Area

The Kalihi station will be elevated above Dillingham Boulevard on the ewa side of the intersection with Mokauea Street. Access to the elevated platform will be offered at two station entrances located on either side of Dillingham Boulevard. Bus stops will also be located on both sides of Dillingham Boulevard and on both sides of Mokauea Street. Today, eight bus routes serve this intersection, and eight bus routes are planned to serve the station in the future.

Approximately 69 percent of all curb length in the Kalihi station area lacks any sidewalk. This statistic may make it seem as though this area has the worst pedestrian environment of the three Kalihi station areas, but a close examination of Figure 3-3 shows that the streets immediately adjacent to the station location—Dilling-

ham Boulevard and Mokauea Street—have sidewalks and crosswalks throughout the area. Though streets parallel to Dillingham Boulevard do not have sidewalks and are narrow, they do provide additional circulation options. This grid street network design contributes to light and slow vehicle traffic on these east-west residential streets, making for a more pedestrian-oriented environment than one might infer from the lack of sidewalks.

FIGURE 3-3:
KALIHI STATION LOCATION AND PEDESTRIAN CONDITIONS



Kapalama Station Area

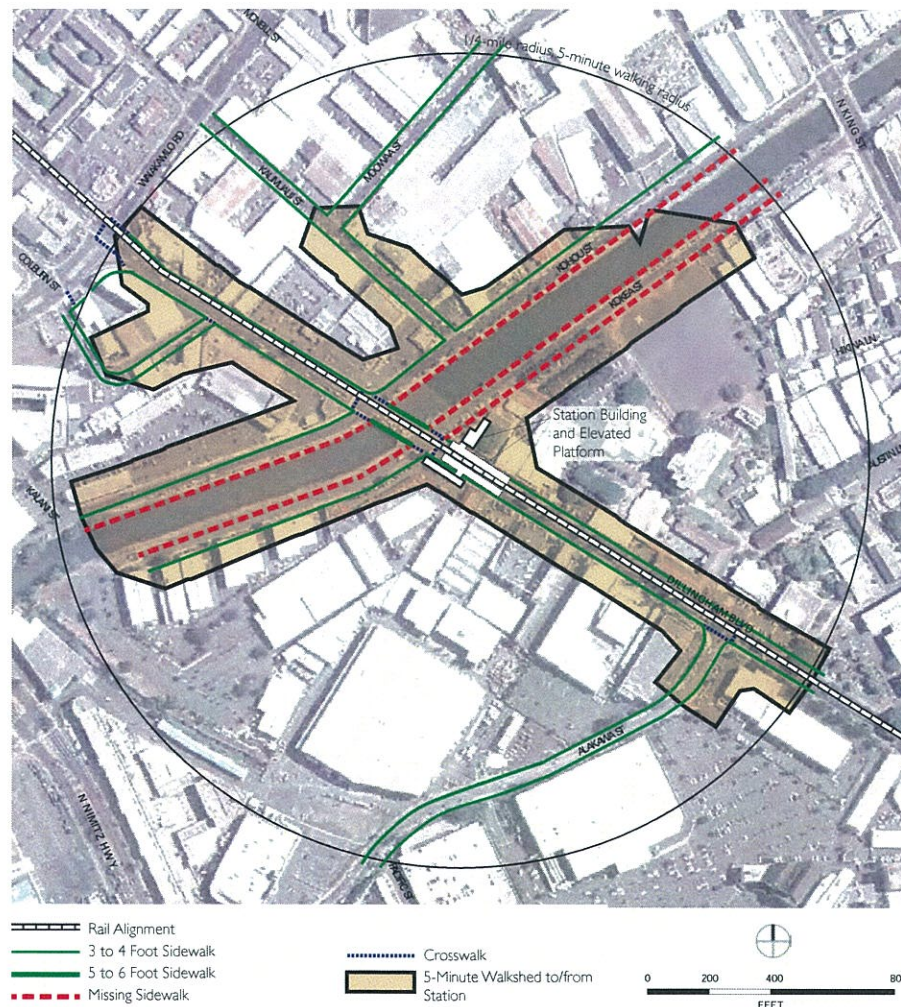
The Kapalama station will be elevated above Dillingham Boulevard on the diamond head side of the intersection with Kokea Street. In the near term, access to the elevated platform will be offered on the mauka side of Dillingham Boulevard. The station is being designed to allow a future station entrance on the makai side of the street as well. Bus stops will also be located on both sides of Dillingham Boulevard. Today, six bus routes serve this intersection, and three will serve the Kapalama station in the future (rail will replace some routes).

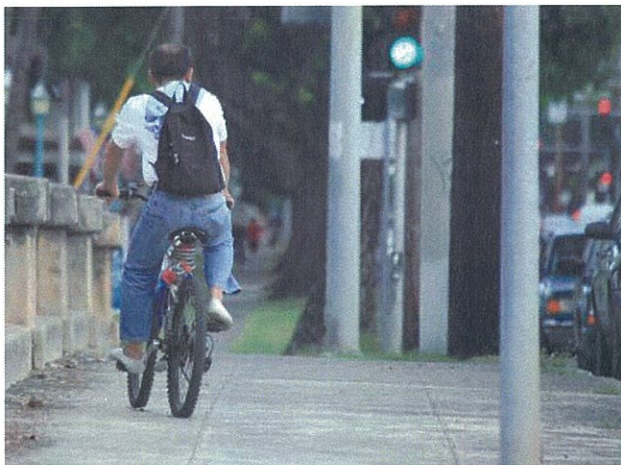
Walking conditions in the Kapalama station area are influenced substantially by the presence of Kapalama Canal. The only crossing of the stream for any transport mode within the ¼-mile area is Dillingham Boulevard. To access the station, pedestrians will have to use the sidewalks and crosswalks along Dillingham Boule-

vard. At five to six feet in width, these sidewalks are too narrow to adequately accommodate large volumes of pedestrians, especially since these sidewalks are already encumbered by utility poles. Only 26 percent of curb length in Kapalama lacks sidewalk—best amongst the three areas—as depicted in Figure 3-2. But, the missing sidewalks are in critical locations: along one side of Kokea and both sides of Kokea Streets adjacent to existing retail and educational land uses.

There are no bicycle facilities in the area, so bicyclists tend to use the narrow shoulders and sidewalks extensively to obtain safe passage. This is one of the factors that make the sidewalks unappealing for pedestrians. Other factors include numerous heavily-used driveway entrances and exits on the west side of the stream and vehicles parked on these driveways or on the sidewalk.

**FIGURE 3-4:
KAPALAMA STATION LOCATION AND PEDESTRIAN CONDITIONS**





Biking accounts for a small share of trips in the corridor due to concerns about safety. Developing a comprehensive network of bike lanes and facilities, such as bike parking and bus/rail access, can help to promote safe bicycling.

Bicycle Facilities

The Kalihi corridor has the potential to be a great location for recreational biking and commuting by bicycle given the flat terrain and good weather. However, bicycle use is limited in the area due to the lack of bicycle facilities and concerns about safety (i.e., conflicts with vehicles).

According to the community survey, approximately 84 percent of respondents rated safety while bicycling as fair or poor in Kalihi. Response were similar for the condition and availability of bicycle paths and lanes, and even worse for the availability of bike racks/storage. Respondents who live around Middle Street station generally rated bicycle convenience and safety lower than the respondents near the other two stations. Given these concerns, it is not surprising that bicycle ownership rates in Kalihi are quite low—just 29 percent of households have adult bikes, and only 34 percent of households with children have bikes for children.

The only existing bikeway facilities around the three immediate station areas are the terminal stretch of the Radford to Middle Street bicycle path and the bicycle lane along Waiakamilo Road. Dillingham Boulevard lacks dedicated bicycle facilities, parking lanes, or a shoulder in most locations since the road is used exclusively for traveling vehicles. As a result, bicyclists usually use sidewalks, where available, or side streets to travel between destinations, creating potential conflicts between bicyclists and pedestrians or vehicles.

Oahu Bike Plan

Policies and plans to build bicycle facilities have been codified in Bike Plan Hawaii, A State of Hawaii Master Plan, and adapted with some revisions in the Oahu Bike Plan: A Bicycle Master Plan. The Oahu Bike Plan defines existing and planned bicycle facilities.

The Oahu Bike Plan divides implementation between priority one (highest), two, and three projects. Projects within the ½-mile area that provide access to and from the stations include priority two and three projects only, as shown in Table 3-3. At each station, the plan also calls for bike storage (racks or lockers depending

on the number of boardings), “stair rails” to facilitate moving bicycles up and down stairs, and services such as attended parking and repair facilities at stations with high AM peak period boardings (e.g., >1,000). These recommendations and other bicycle improvement projects are described further in Section 3.2.

Transit Facilities

Existing Ridership

Kalihi enjoys a high level of bus transit ridership, especially for trips beginning and ending within the area, indicating a predisposition by existing residents to use transit. Public transportation on Oahu is currently composed of TheBus for fixed route operations and The Handi-Van for on-demand service for persons with disabilities. The rail project will complement these existing services with high-frequency east-west service. Bus routes will be adjusted once the rail is operational to bring people to and from the stations.

Kalihi is currently well-served by bus transit, especially the Kalihi Transit Center at Middle Street, through which over 20 bus routes pass. Unlike their perspectives on pedestrian and bicycle travel in the community, survey respondents were generally more satisfied about the conditions and safety of bus transit. Approximately two-thirds of respondents rated the overall ease of bus travel as good or higher; this finding is about the same for all three station areas. Safety while riding the bus and ease of locating bus stops were rated similarly high. In contrast, the condition of bus stops and safety while waiting for the bus were rated somewhat lower: only 47 percent of respondents rated these indicators as excellent or good. This suggests that the TOD Plan should recommend improved bus shelters, lighting, and overall safety around transit stops.

Rail-to-Bus Transit

Coordinating the stops, schedules, and fares of rail and bus transit will be essential to creating an integrated transit system and encouraging ridership. The bus and shuttle network will need to be redesigned to avoid service redundancies with the rail line. Schedules and



The Oahu Bike Plan calls for bicycle facilities to be integrated with bus and rail transit infrastructure to support bicycle safety and convenience.

TABLE 3-3: OAHU BIKE PLAN PROPOSED IMPROVEMENTS WITHIN THE 1/2-MILE AREA

| STATION AREA | IMPROVEMENT |
|---------------|--|
| Kapalama | <ul style="list-style-type: none"> Alakawa Street Bike Lane (project 2-102) Kapalama Canal Bike Path Kohou Street side - south section (project 2-118) Kapalama Canal Bike Path Kokea Street side (project 2-119) King Street (northern section) Bike Lane (project 2-123) Dillingham Boulevard Bike Route (project 1-38) |
| Kalihi | <ul style="list-style-type: none"> King Street (northern section) Bike Lane (project 2-123) Dillingham Boulevard Bike Route (project 1-38) Dillingham Boulevard (northern section) Bike Lane (project 2-107) Mokauea Street Bike Lane (project 3-106) |
| Middle Street | <ul style="list-style-type: none"> King Street (northern section) Bike Lane (project 2-123) Dillingham Boulevard (northern section) Bike Lane (project 2-107) Middle Street (southern section) Bike Lane (project 2-129) Nimitz Highway Bike Lane (project 3-107) |

Source: Oahu Bike Plan, August 2012



Kalihi already enjoys a high level of bus transit ridership but would benefit from bus stop and rail station area improvements to reduce waiting times and improve safety and aesthetics.

time-transfers will need to be coordinated to better support rail-to-bus transfers. In addition, improved bus shelters, signage, and other streetscape improvements are necessary to ensure safety around stops.

The Middle Street Transit Center will serve as the main bus-to-rail transfer point in Kalihi once rail is operational, bringing residents from neighborhoods not served by rail to this transfer point.

Vehicular Traffic

Level of service (LOS) measures operational conditions for roadways or intersections. It is traditionally used to measure roadway conditions and vehicle delay. Three intersections in the corridor currently (2012) operate at a level of service (LOS) of E or F, indicating severe traffic delays in either the a.m. or p.m. peak hours:

- Dillingham Boulevard and North King Street with LOS E in both the a.m. and p.m. peak hours;
- North King Street and Kalihi Street with LOS E in the p.m. peak hour; and
- North Nimitz Highway and Waiakamilo Road with LOS E in the a.m. peak hour.

Parking

Appropriate parking regulations can further broader community planning objectives, including infill development, support for transit and other modes, and development of walkable communities, and even enhance housing affordability by requiring less building area or property to be devoted to parking. While the TOD Plan aims to moderate the overall need for parking, it also recommends a number of forward-thinking parking regulations as well as strategies to help ensure an appropriate supply of parking.

Flexibility in parking configurations allows for efficient use of space and should be employed throughout the corridor, where possible. Demand-responsive pricing of public parking spaces can also help regulate parking supply. Additionally, to promote efficient use of land, surface parking lots should be discouraged, and reduced parking requirements should be permitted where spe-

cial conditions exist. Recommended parking standards by land use and additional regulations are detailed in Chapter 6: Implementation, Section 6.2.

While parking is an issue through much of the Kalihi corridor, it is a particularly acute problem in the Kalihi station area, where residential and business uses have limited parking since they preceded the City's current parking requirements. Dedicated off-street loading areas are often non-existent, so trucks block travel and/or parking areas. Residential and industrial areas are also mixed, resulting in commercial parking and loading activities impacting residential uses.

Parking in the Kalihi station area occurs on-street and off-street in lots associated with commercial uses. These streets are often privately owned, narrow, and poorly maintained. On-street parking along these streets is typically haphazard, especially where sidewalks are not present. There are no on-street metered parking spaces or regulations prohibiting long duration parking in residential areas. Some predominately residential areas have experienced an infiltration of commercial and retail operations which generates traffic and parking demands that are inconsistent with a safe and appealing residential environment. There are no off-street public parking lots or structures in the ½-mile area. Not surprisingly, survey respondents overwhelmingly ranked the amount of public parking as either fair (30 percent) or poor (51 percent).

The master plan for the Middle Street Transit Center has an area set aside for 700-1,000 parking stalls in a structured facility, but this will not be constructed in the current rail project phase. Neither the Kalihi nor Kapalama stations are anticipated to have public parking, though the private sector is not prohibited from developing parking. Honolulu Community College operates large surface lots for students, faculty and staff and is planning a parking structure along Kokea Street that may include some public parking.



Parking is constrained around the Kalihi station (top) and Honolulu Community College (middle), with on-street parking limited to the side streets. Parking is not permitted on Dillingham Boulevard (bottom).

3.2 Multi-Modal Circulation Improvements

The Kalihi Neighborhood TOD Plan recommends creating an integrated and convenient multi-modal circulation network. Consistent with the City and County of Honolulu Complete Streets Ordinance, it aims to improve the street grid and address the pedestrian and bicycle network deficiencies described in Section 3.1, while enhancing bus transit and direct connections between rail and other modes. The Plan also recommends a coordinated parking strategy that accommodates vehicle parking, while still emphasizing transit and pedestrian movement. Figure 3-5: Multi-Modal Circulation Network (Circulation Diagram) summarizes the circulation improvements for the corridor, which are described in more detail in the text below.

Street Network

The foundation of the multi-modal circulation system is the network of local streets. They provide the neighborhood's basic transportation infrastructure, accom-

modating vehicles, buses, bicyclists, and pedestrians, as well as access to public and private property. The streets are also a major component of the public realm (as described in Chapter 4: Urban Design) where social interactions occur.

The TOD Plan identifies potential new streets and multi-use connections to create an interconnected street network that serves multiple transportation modes and improves access to the rail stations and existing and future development. New streets are primarily shown around the Kapalama station to provide access within the proposed mixed-use district and to Waiakamilo Road and the Kalihi station area. New street connections should also be developed as part of the Oahu Community Correctional Center site, should the facility redevelop with a mix of uses.

Although new streets may not follow these locations precisely, the intent of the illustrations in Figure 3-5 is to show how streets should connect to the stations and to other streets and to suggest the appropriate block size, with block lengths averaging approximately 350 feet.



View of Kapalama station area looking makai. A network of new streets around the planned Kapalama station would improve access between the station and existing and new destinations in this district.

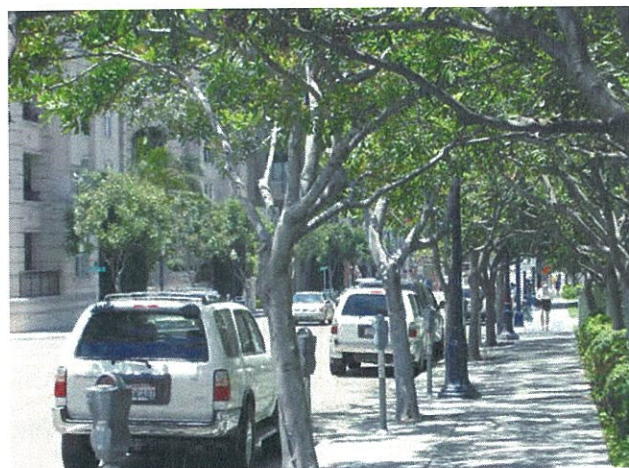




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Designing attractive, safe pedestrian and bicycle facilities that are separated from vehicular facilities, as shown in these mainland examples, will improve accessibility to the rail stations and boost transit ridership.

Pedestrian and Bicycle Facilities

The Circulation Diagram also identifies a range of improvements to pedestrian and bicycle facilities to improve mobility, accessibility, and safety. In order to improve safety, attractiveness of streets, and accessibility to the new transit stations, sidewalk improvements and new pedestrian and bike paths are shown within the station areas. These include sidewalk improvements (e.g., new/wider sidewalks), streetscape improvements (e.g., landscaping, street furniture, lighting), and façade improvements, as described in more detail in Chapter 4. Public promenades are proposed to provide more opportunities for active transportation, recreation, and stronger connections to the waterfront areas of Keehi Lagoon and Kapalama Canal. Lastly, several new bicycle paths and lanes are identified to improve safety and create a connected network for cyclists.

Promenades

Promenades are recommended along both sides of Kapalama Canal and along the Keehi Lagoon waterfront, serving as open space and recreation amenities and key parts of the circulation network. The Keehi Lagoon promenade would serve as a connection between Kalihi, Keehi Lagoon Park, the Lagoon Drive station, and a potential future park site, allowing non-vehicular modes to avoid the Middle Street area's highway on- and off-ramps to the extent possible.

The Kapalama Canal promenade would create a linear open space, providing a comfortable place for students to study and residents to linger, picnic, and enjoy the scenery, an opportunity for active recreation through jogging and biking paths, and a continuous mauka-makai route that is safe and well-lit. Kohou Street should be redesigned to be a shared street that accommodates all modes of travel at very low speeds with elements such as special pavers or bollards designating the pedestrian walkway, a striped parking aisle, and a narrowed street to calm vehicle traffic.

Bicycle Facilities

In addition to the promenades, pedestrian/bicycle paths are identified at key locations to improve access within the Kapalama station and Honolulu Community College area (as shown in the HCC Long Range Development Plan), as well as along Kalihi Stream and across Middle Street in the Middle Street station area to provide access to the waterfront parks.

Bicycle routes (Class III), lanes (Class II), and paths (Class I), based on the Oahu Bike Plan, will connect bicyclists to the rail stations, to destinations within Kalihi, and to the regional bike network, as shown in Figure 3-6. In addition to the Oahu Bike Plan projects, this diagram shows Kalani Street as a key bicycle connection between the Kalihi station area and the Kapalama/Iwilei district, where bicycle movement is prioritized and vehicle volumes and speeds should be kept low. In addition, new bicycle routes and lanes are applied on the new streets proposed in Kapalama and proposed to connect to the existing Middle Street bike path and destinations ewa of the station.

BICYCLE CLASSIFICATION (ADAPTED FROM THE OAHU BIKE PLAN)

Bicycle Paths (Class I), referred to as shared use paths, are off-street grade-separated facilities at least 12-feet in width.

Bicycle Lanes (Class II) are on-street facilities delineated by wide white striping and pavement stencils indicating bike-use only. Lanes are typically five- to six-feet wide.

Bicycle Routes (Class III) are on-street facilities often shared with vehicle traffic. Posted street signs and pavement markings alert drivers that bicyclists may be present. Routes are typically implemented when there is not sufficient room for a bicycle lane in the roadway.



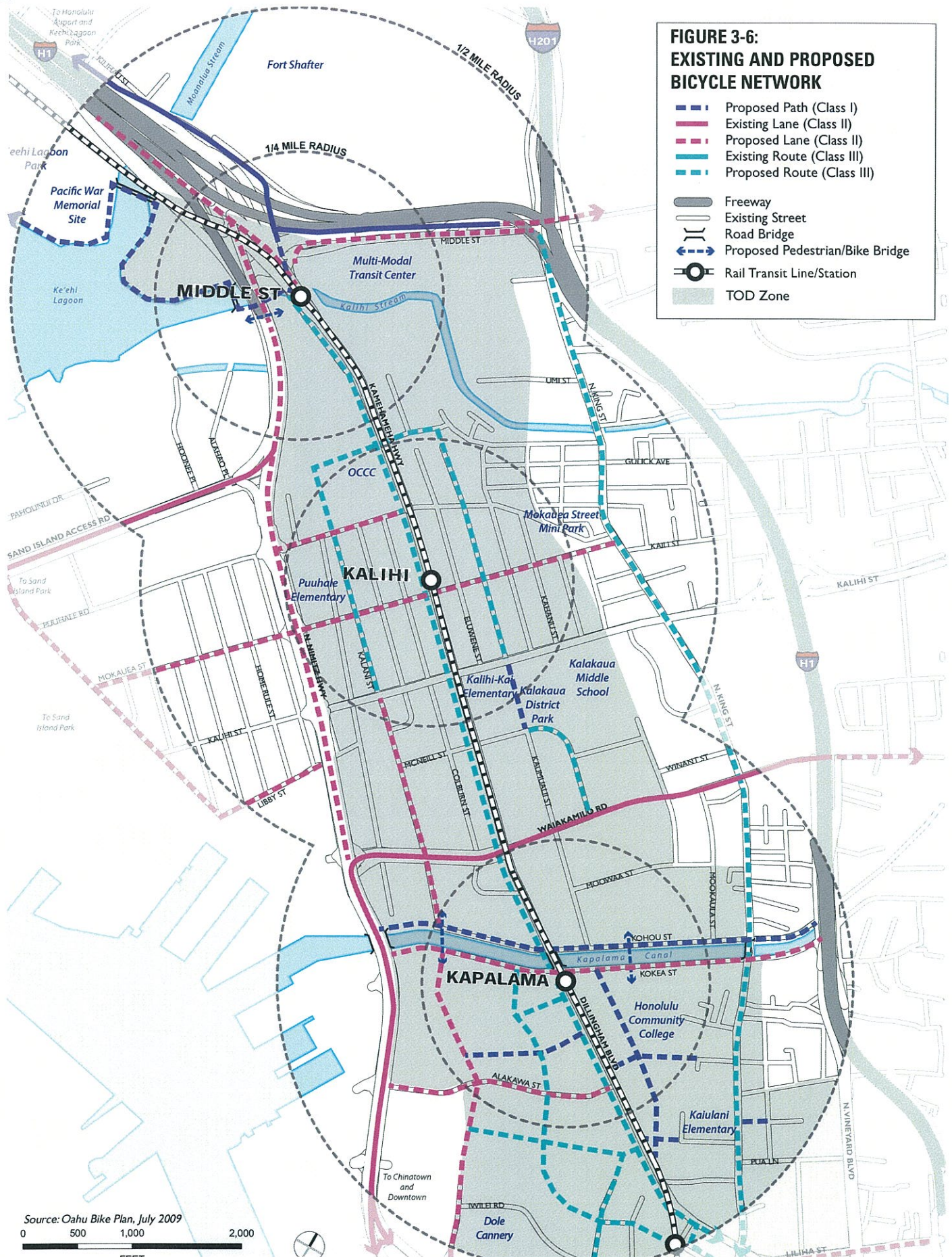
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The TOD Plan proposes providing a comprehensive bicycle network, including on- and off-street bicycle routes and lanes, as shown in these mainland examples (top, middle). Bicycle parking at each of the stations and key destinations will improve the safety and convenience of bicycling (bottom).



Bicycle facilities on the street network should be complemented by support facilities including signage, parking/storage at stations, bicycle retail stores, and enforcement. They should be located between parking lanes and the sidewalk, where possible. Employers can also assist in facilitating bicycle commuting by providing showers and locker rooms, in addition to secured bicycle storage.

Sidewalk and Crossing Improvements

Although safe and convenient pedestrian access is recommended on all streets, sidewalk improvements have been identified and prioritized on a few key streets, where deficiencies are most pronounced or where improvements can most improve access to rail transit. Actual sidewalk improvements depend on existing conditions and anticipated needs, but they may include installing sidewalks or striping where they are currently missing or increasing sidewalk width, and adding lighting, shade trees, street furniture or wayfinding signage, among other improvements. For example, along Dillingham Boulevard, sidewalks should be installed where missing and widened where they are currently inadequate, and additional street trees and pedestrian amenities should be added where feasible. Sidewalk improvements are also shown along Mokauea Street to improve conditions between Nimitz Highway and King Street. Crossing improvements are illustrated on Kalihi Street, consistent with the recommendation of the State Department of Transportation's Pedestrian Master Plan.

New pedestrian bridges are proposed to improve pedestrian circulation by increasing safety and reducing walking times. Two new pedestrian bridges are illustrated across Kapalama Canal: mauka of Dillingham Boulevard connecting to the Honolulu Community College campus, and extending Kalani Street from Kalihi to the Kapalama/Iwilei districts as a key bicycle and pedestrian connection. An additional pedestrian bridge (elevated) and pedestrian path are proposed across Nimitz Highway at Middle Street to provide access between the Middle Street station and the waterfront. Ideally, the pedestrian bridge would connect directly from the concourse level of the Middle Street station to provide a grade-separated pathway that continues to the existing and any planned bicycle and pedestrian paths.



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Pedestrian crossings can be improved in active pedestrian areas through measures such as signalized crosswalks, mid-block crossings designed with unique pavers/markings, installation of LED or audible crosswalks, and avoiding free-right turn lanes at intersections.



M. GARRITY

Examples of living streets (otherwise known as woonerfs, shared spaces, or home zones) can be found around the world.

Some streets are also proposed as “Green Streets” in Chapter 4: Urban Design; these would serve as connections between parks and open spaces and feature large shade-providing trees on both sides of the street.

Living Street Zones [Keala O Ke Ola]

Living Street Zones are shown in Figure 3-5 mauka and makai of the Kalihi station where circulation improvements are needed and desired but standard sidewalks and curbs are less feasible. Due to the nature of the uses (industrial, auto repair, commercial, single-family homes), small parcel sizes, abundance of curb cuts, narrowness of these streets, and desire to maintain parking and keep down the cost of improvements, “living streets” are identified for this area. (The Hawaiian term for this living street concept is Keala O Ke Ola.) Private streets will continue to be owned and maintained privately. However, some streets and sidewalks will be shared between the City and the private adjoining owner. For example, the Fort Street Mall Business Improvement District Association supplements services currently provided by the City within the District on City property.

Living street design aims to balance the needs of resident/employee parking, vehicle access, and pedestrian safety, as well as bicycle safety and access through traffic calming techniques. This is especially important on Kalani Street where a high-quality bike route, or “bike boulevard,” (a street designed such that bikes have priority and vehicles speeds and volumes are low) is proposed. Adding striping along the boundary between the public right-of-way and private property would demarcate public and private space and encourage drivers to park within their properties, freeing up right-of-way for pedestrian and bicycles use. Landscaping improvements would be minimal and unobtrusive.

Living streets are based on the concept of giving all uses equal access to the public right-of-way and, therefore, must be designed to be compliant with the Americans with Disabilities Act (ADA).

TABLE 3-4: SUMMARY OF MAJOR MOBILITY IMPROVEMENTS

| IMPROVEMENT | DESCRIPTION |
|---|---|
| New Street Network | System of vehicular rights-of-way that maximizes through streets; prioritizes access to transit stations; and enhances access to and within residential areas. Illustrated conceptually in Figure 3-5: Circulation Diagram. |
| Promenades | Pedestrian- and bicycle-only right-of-way that improves views; heightens enjoyment of Keehi Lagoon and Kapalama Canal recreation opportunities; and improves overall mobility and access in the corridor. (See Figure 3-5) |
| Sidewalk Improvements | Construction of sidewalks where missing to enhance safety and accessibility to rail transit along Dillingham Boulevard and key transit connections (See Figure 3-5) |
| Crossing Improvements | Enhancements to crosswalks to increase safety along Kalihi and Middle Streets. May include signalization, striping, and/or bulb-outs. (See Figure 3-5) |
| Living Street Zones | Zones designated to better accommodate all modes of travel efficiently around the planned Kalihi station (See Figure 3-5) |
| Connected Bicycle Routes, Lanes, and Paths | System of bicycle facilities that eases and ensures safety of movement to and within the corridor. Shown in Figure 3-6: Bicycle Network and described in the Oahu Bike Plan. |
| Coordinated Bus-Rail Transit | Coordinated multi-modal transit system that will require collaboration with Honolulu Authority for Rapid Transportation (HART), the Department of Transportation Services (DTS), and Oahu Transit Services (TheBus) |

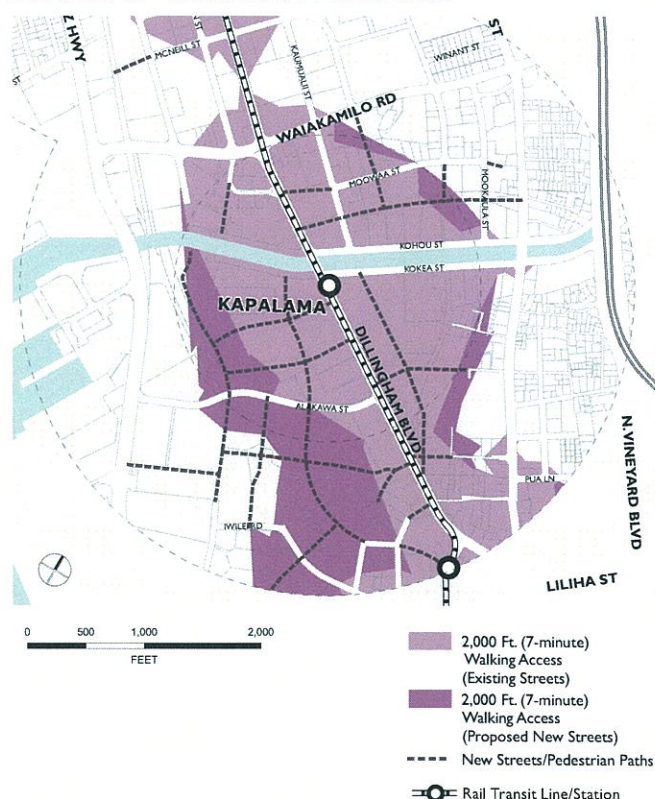
3.3 Projected Multi-Modal Transportation Conditions

The rail project will provide fast and reliable transit service, while TOD increases the number of homes, jobs, and destinations accessible by rail. Together, these factors are likely to shift how existing and new community members choose to travel to school, work, shopping, and other destinations, as they weigh speed, costs, and convenience. This section analyses the impact of the rail project and the improvements described above on future travel patterns.

Walking Access

The new proposed streets are primarily located around the Kapalama station, which currently has large blocks and limited walking access. This proposed street grid is anticipated to improve the overall walkability of this proposed mixed-use district and access to transit. Figure 3-7 illustrates the effect of the new street network—increasing the number of properties that may

FIGURE 3-7: WALKABILITY ANALYSIS



be accessed within a seven-minute walk of each station. Breaking up large parcels with new streets increases circulation options for all modes to access transit and destinations within the district. This increased accessibility is an essential component of fostering a walkable neighborhood and transit-oriented development, as it allows for direct linkages to the stations.

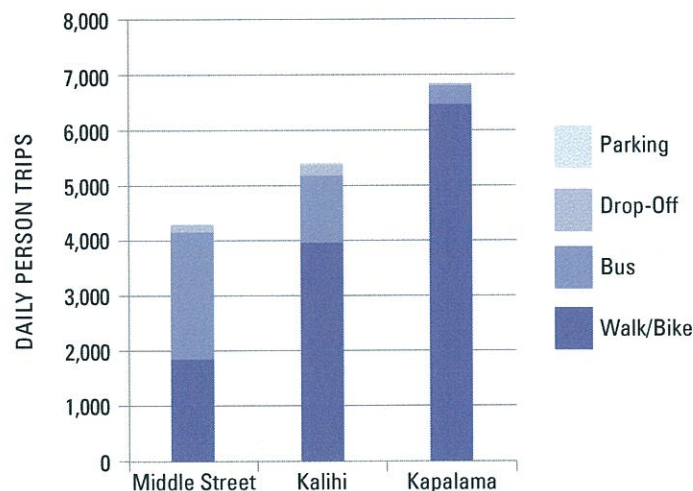
Rail Transit Ridership and Station Access Projections

The EIS for the rail project estimated that there will be a total of 116,330 daily boardings on the rail system by 2030. This is an average of 5,540 daily person boardings at each rail station, though the average for the three stations in Kalihi is substantially less at 2,890.

Notably, the projected ridership in the EIS did not include the potential increase in riders as a result of TOD. To rectify this, the planning team analyzed the effect of the proposed TOD uses and development pattern on rail transit ridership. Ridership would be expected to increase since TOD by its very nature seeks to support transit ridership by creating new origins and destinations—such as homes, jobs, and shopping—within safe and convenient walking distance to transit. Table 3-5 supports this hypothesis, projecting a near doubling in ridership (a 92% increase) for the three Kalihi stations with buildout of the TOD Plan. Most of this increase is attributed to new development around the Kapalama station (tripling of ridership) and the increase in transit usage by new residents, workers, and students accessing these new destinations.

TOD affects not just the number of transit riders, but also how they access the rail stations—whether on foot, or by car, bus, bicycle, scooter, or other mode. Chart 3-3 illustrates how rail transit riders are expected to access each station if the TOD Plan were to be implemented consistent with the land use program and buildout described in Chapter 2. At the Middle Street station, just over half of all transit riders are expected to arrive by bus, not surprising given its role as a transfer station and a bus transit hub. Access by walking and biking are together anticipated to account for 73 and 94 percent of trips at the Kalihi and Kapalama stations,

CHART 3-3:
PROJECTED STATION ACCESS RATES, BY MODE
(WITH TOD PLAN BUILDOUT)



Source: Weslin Consulting Services, Inc., 2012.

respectively. Access by vehicle—both kiss-and-ride (drop-offs/pick-ups) and self parking is anticipated to be low for all stations. As described above, public parking is expected to be limited at each station (with the exception of Middle Street, which has a planned park-and-ride lot).

Vehicle Traffic

Summary of Vehicle Trips

A traffic analysis was completed to understand the potential traffic impacts associated with new development. Overall, future development anticipated under the TOD Plan does not contribute substantially to vehicle trip generation, especially when accounting for implementation of transportation demand management (TDM) measures, such as pedestrian, bicycle, and bus access improvements, and vanpool/carpool/ridesharing programs. The Institute of Transportation Engineers' (ITE) vehicle trip generation rates and reductions to account for transit service (2% to 20% for work trips and 2% to 10% for non-work trips), were applied to each land use classification described in Chapter 2 to assess anticipated vehicle trip generation.

TABLE 3-5: PROJECTED RAIL TRANSIT RIDERSHIP, BY STATION

| | STATION | | | |
|---|---------------|------------|-------------|---------------|
| | MIDDLE STREET | KALIHI | KAPALAMA | TOTAL |
| Initial EIS Estimate (No TOD Assumed) | 2,800 | 3,600 | 2,200 | 8,700 |
| TOD Plan Estimate (With TOD & Moderate-Level TDM ¹) | 4,300 | 5,400 | 6,900 | 16,700 |
| PERCENT INCREASE | 54% | 50% | 209% | 92% |

1. For the "moderate" commitment level of Transportation Demand Management, the emphasis is on a higher quality of pedestrian and bicycle linkages to stations and on absolute safety achieved by the elimination of conflicts with vehicle traffic. Details can be found in "Transportation Assessment: A Technical Memorandum Prepared for the Kalihi Neighborhood TOD Plan." Weslin Consulting Services, Inc, May 2012.

Source: Weslin Consulting Services, Inc., 2012; Honolulu High-Capacity Transit Corridor Project Final Environmental Impact Statement; by the United States Department of Transportation Federal Transit Administration and the City and County of Honolulu Department of Transportation Services, June 2010; Table 3-20.



New blocks resulting from an expanded street network in the Kapalama/Iwilei station areas. The expanded network builds on existing street segments to establish through streets; improve access to the stations; and create smaller block lengths in residential areas.

This analysis identified that each weekday there are approximately 244,000 vehicle trips generated within the ½-mile area, as shown in Table 3-6. As a result of build-out of the TOD Plan, the ½-mile area could expect 32,000 net new vehicle trips or a 13 percent increase in total daily trips. With the application of TDM measures, vehicle trips could be reduced by 5% to 21% over the future condition without TDM measures, depending on the level of implementation. A moderate level of TDM implementation is shown in the table below. Assuming this level of TDM, the projected level of future vehicle trips would be comparable to existing rates—just a one percent increase over existing conditions.

Comparative Analysis

As described and illustrated in Chapter 2, this plan establishes a focused Transit-Oriented Development Zone ("TOD Zone") encompassing the sites within a ½-mile of the stations that have the most potential to support transit ridership and take advantage of transit

TABLE 3-6: WEEKDAY VEHICLE TRIP ENDS IN THE KALIHI CORRIDOR (TRAFFIC ANALYSIS ZONES WITHIN THE 1/2-MILE AREA)

| | NUMBER OF TRIPS ² | % INCREASE OVER EXISTING |
|--|------------------------------|--------------------------|
| Existing Conditions | 244,000 | |
| Net Increase | 32,000 | |
| Total Future (With Rail Project & TOD, but no TDM Measures) | 276,000 | 13% |
| Total Future (With Rail Project, TOD & Moderate-Level TDM Measures)¹ | 245,400 | 1% |

1. For the "moderate" commitment level, the emphasis is on a higher quality of pedestrian and bicycle linkages to stations and on absolute safety achieved by the elimination of conflicts with vehicle traffic. Details can be found in "Transportation Assessment: A Technical Memorandum Prepared for the Kalihi Neighborhood TOD Plan." Weslin Consulting Services, Inc, May 2012.
2. Three TAZs are in both the Kalihi and Downtown Neighborhood TOD areas and would be double counted if one were combining the two transportation assessments.

Source: Weslin Consulting Services, Inc., 2012.

proximity. Table 3-7 focuses on the projected change in vehicle trips for the TOD Zone and compares (A) existing conditions with three future (2030) conditions.

The outcome of this analysis isolates the contribution that the rail project and TOD and related TDM measures—such as pedestrian and bicycle improvements—may have on reducing vehicle trips. Column (B) describes future traffic conditions in the Kalihi area assuming normal growth rates and no rail project (i.e., No Build Alternative from the EIS). In this case, vehicle trip ends are expected to increase by 49 percent over existing conditions. Column (C) isolates the potential

impact of rail on reducing vehicle trip ends, compared to Column (B), suggesting that though trips would still increase, they would increase at a much lower rate—just 19 percent.

Lastly, Column (D) models the scenario articulated in this TOD Plan, where the TOD Plan and TDM measures complement the rail project by supporting transit ridership. In this scenario, local vehicle trips are only expected to increase by nine percent overall from existing conditions and to a lesser extent at Kapalama and Kalihi stations where the proposed land uses are most supportive of transit ridership.

TABLE 3-7: DAILY VEHICLE TRIP ENDS, BY STATION AND SCENARIO (TRAFFIC ANALYSIS ZONES WITHIN THE KALIHI TOD ZONE)

| STATION | (A) EXISTING | (B) 2030 FUTURE WITHOUT RAIL PROJECT OR TOD PLAN | | (C) 2030 FUTURE WITH RAIL PROJECT (BUT, WITHOUT TOD OR TDM) | | (D) 2030 FUTURE WITH RAIL PROJECT, TOD AND TDM | |
|------------------------------------|----------------------|--|------------------------|---|------------------------|--|------------------------|
| | VEHICLE TRIP ENDS | VEHICLE TRIP ENDS | CHANGE VS. EXISTING | VEHICLE TRIP ENDS | CHANGE VS. EXISTING | VEHICLE TRIP ENDS | CHANGE VS. EXISTING |
| Middle Street | 29,500 | 39,400 | 34% | 35,500 | 20% | 32,900 | 12% |
| Kalihi | 34,700 | 46,200 | 33% | 38,700 | 11% | 35,200 | 1% |
| Kapalama | 85,600 | 137,100 | 60% | 104,600 | 22% | 95,200 | 11% |
| Kalihi TOD Zone¹ | 149,800 | 222,700 | 49% | 178,800 | 19% | 163,300 | 9% |

1. Total numbers may not sum precisely due to rounding.

Source: Transportation Assessment, Kalihi Neighborhood TOD Plan, Weslin Consulting Services, Inc., 2012, pages 36-49.



3.4 Goals and Policies

GOALS

- MB-G1:** Create an integrated multi-modal transportation system that fosters livable, walkable communities around the stations, and supports increased rail ridership.
- MB-G2:** Prioritize pedestrian, bicycle, and bus transit access to the rail stations through strategic improvements.
- MB-G3:** Design transportation infrastructure as an integrated component of the neighborhoods and overall public realm of streets, landscaping, plazas, and parks.
- MB-G4:** Prioritize pedestrian and bicycle safety, including for students going to and from local schools.
- MB-G5:** Accommodate existing and future on- and off-street parking demand through a coherent parking management strategy that includes support for alternative travel modes.

POLICIES

- MB-P1:** Implement the major mobility improvements described in Table 3-4 in coordination with developers, property owners, and transportation agencies.
- MB-P2:** Require large developments within the TOD Zone to prepare a Transportation Management Plan (TMP) to identify TDM strategies that minimize the number of vehicle trips being generated by the proposed development; and, subsequently if necessary, a Traffic Impact Analysis Report (TIAR), based upon the reduced number of vehicle trips and projected modal distribution of person trips identified in the TMP.

Street Network

- MB-P3:** Create a fine-grained network of streets and pedestrian routes to improve walking access and enable increased access to the stations and to new and existing destinations within the station areas.
 - Develop new mauka-makai and ewa-diamond head streets in the Kapalama station area to increase walkability and more evenly distribute traffic in the new mixed-use district, generally in accor-

dance with the overall pattern shown on Figure 3-5: Circulation Diagram. Provide flexibility with the actual street layout, while ensuring that block sizes are, on average, generally no larger than 350 feet in any direction.

- Improve mauka-makai connections through the Kalihi and Kapalama station areas through sidewalk and Green Street improvements (see Figure 3-5: Circulation Diagram and Open Space Diagram in Chapter 4), crossing improvements, and new pedestrian-only and street connections.
- MB-P4:** Accommodate and sign truck traffic on specific routes: Sand Island Access Road, Kalihi Street, and Nimitz Highway. Through truck traffic is discouraged within the rest of the ½-mile area.
- MB-P5:** Work with the State and City transportation departments and the Honolulu Authority for Rapid Transportation (HART) to mitigate potential traffic hot spots and delays, especially on Dillingham Boulevard where travel lanes and left-turn lanes are expected to be redesigned:
 - Prioritize traffic studies and improvements at institutions such as Honolulu Community College and the Oahu Community Correctional Center, which has emergency and other transport vehicles entering and exiting the facility, but also for high-traffic turning locations, such as Alakawa Street.
 - Educate motorists about construction activities and street design changes on Dillingham Boulevard and encourage use of alternative routes, such as Nimitz Highway, King Street, and H-1, for pass-through trips.
- MB-P6:** Enforce regular maintenance and cleaning of city streets and code enforcement related to parking and abandoned cars.

Station Access Design

- MB-P7:** Work with HART to design station entrance areas that are integrated with surroundings, create a welcoming environment, serve as a hub of activity, and enable self-policing:

- Ticket windows, restrooms and any other amenities should be clearly marked, well-lit, and face public streets.
- Rail stations and bus stops should be safe, clean, well-maintained, and patrolled to ensure the safety and security of passengers.
- Station entrances should minimize adverse effects to adjacent historic properties.
- Sidewalks near stations and station entrances should be improved as needed.
- Wayfinding signs should be visible and coherent and direct on- and off-boarding passengers to surrounding streets and major destinations, such as Aloha Tower, Dole Cannery, and the financial district.

MB-P8: Establish the Middle Street Transit Center as a true multi-modal transit hub:

- Coordinate bus schedules, routes, and fares to enable timed-transfers within short walking distance, particularly at the Middle Street Transit Center.
- Maintain and enhance pedestrian and bike connections between the Middle Street station and existing and future parks, including Keehi Lagoon Park and a new park proposed on the waterfront by providing pedestrian routes over Nimitz Highway to Sand Island Access Road.
- Continue to coordinate with the United States Army to enable a safe pedestrian connection across Middle Street between the entrance gate at Fort Shafter and the station to encourage rail ridership among enlisted military, spouses and children, contractors, retirees, and other users.

MB-P9: At Kapalama station, coordinate with Honolulu Community College to develop an integrated rail stop and transit station with basic services and amenities such as a café.

Pedestrian Facilities

(Also see policies on streetscape improvements and block size in Chapter 4)

MB-P10: Develop a fine-grained network of streets and pedestrian routes, as illustrated in Figure 3-5: Circulation Diagram. Provide incentives for private developers to develop streets in tandem with new transit-oriented development to ensure safe and direct pedestrian, bike, and vehicular connections.

MB-P11: Construct sidewalks where they are currently missing (except in Living Street Zones) to create continuous pedestrian walkways:

- Design new sidewalks to be at least eight feet wide.
- Prioritize sidewalk construction and improvements on both sides of Dillingham Boulevard and within ¼-mile of the stations.

MB-P12: Prioritize street crossing improvements at key intersections where children are present and where heavy pedestrian movement is anticipated across busy intersections, as shown in Figure 3-5.

- Improvements may include, but are not limited to: reducing the effective width of the crossing through pedestrian refuges or corner bulb-outs; installing wide striped crosswalks or ones with flashing and light-emitting diode (LED) beacons to ensure pedestrian safety; disallowing or removing free-right turn lanes, and/or other means of slowing traffic or alerting drivers to the presence of pedestrians.

MB-P13: Design Living Street Zones in the areas shown in Figure 3-5 as narrow streets that accommodate all travel modes safely by balancing the needs of resident/employee parking and vehicle, bicycle, and pedestrian movement:

- Encourage parking within property lines by striping the boundary between the public right-of-way and private property, freeing up right-of-way for pedestrians and bicycles.
- Encourage low-vehicle speeds through striping, signage, changes in street materials, and traffic calming devices.

- Design any landscaping improvements to be unobtrusive.
- Consider extending lighting from rooftops to reduce the need for utility poles.
- Prioritize improvements on Kalani Street, which should provide a continuous bike route from the Kalihi station area across Kapalama Canal to Iwilei and Downtown.

MB-P14: Prioritize pedestrian bridges over waterways and highways where pedestrian safety measures and accessibility improvements are needed, as shown in Figure 3-5:

- Two pedestrian/bicycle bridges should be developed mauka and makai of the Kapalama station to improve mobility across Kapalama Canal and between existing and future destinations.
- Provide pedestrian bridge access across Nimitz Highway to Sand Island Access Road, the waterfront, and over Middle Street.

MB-P15: Design a safe, well-lit promenade along both sides of Kapalama Canal to enable pedestrian and bicycle travel along the canal to the station and to points mauka of King Street:

- Explore using the canal for local transit, such as water taxis, and boating recreation.
- Narrow Kohou Street to slow vehicle traffic, and better accommodate all modes through a woonerf or shared street design, such as with special pavers, pedestrian walkways defined by bollards, and a striped parking aisle.

Bicycle Facilities

MB-P16: Design a cohesive bicycle network that provides safe and convenient routes between stations and major destinations, as shown on Figure 3-6: Bicycle Network.

- Design new bicycle lanes (Class II) to be at least five feet wide and buffered from vehicular traffic by parking lanes or striping, where possible.
- Designate Kalani Street as the prioritized bicycle facility through the Kalihi corridor. A shared bicycle route (Class III) should be designed through the

Living Street Zones within the Kalihi station area, and Class II lanes should be pursued in other locations.

MB-P17: Use strategies defined in the Draft Oahu Bike Plan to support bicycle safety education and encourage a culture of bike riding among children and adults; to create mutual awareness between cyclists and motorists; and to encourage employers to support cycling through the provision of showers, bike racks/lockers, and other amenities/incentives.

MB-P18: Continue to coordinate with HART to support bicycle facilities at the stations:

- Racks and secure lockers should be provided at all stations for bicycles and other varieties of personal mobility devices (e.g., Segways and motor scooters).
- Implement a bike sharing program. Prioritize bike sharing “pods” or access locations, around each rail station to improve access to and from the stations.

Bus Transit

MB-P19: Continue to coordinate with HART and the Department of Transportation Services (TheBus) to create an integrated transit system. Assess schedule and route needs for community circulator or shuttle service (including on-demand services) to bring transit riders to rail stations from upland areas and to connect to key destinations (e.g., YMCA, health care).

Parking

MB-P20: Design safe, well-lit drop-off, loading, taxi-stand, and parking areas (at the Middle Street station):

- Locate areas to avoid pedestrian conflicts and limit large expanses of asphalt or surface parking.
- Create visibility from the public right-of-way and connect to any open space, plazas, or retail areas that are part of or adjacent to the stations.

MB-P21: Design loading zones to avoid conflicts with pedestrian and bicycle movement by limiting curb cuts, installing signs, and regulating hours of delivery.

MB-P22: Reduce the land area devoted to parking by supporting innovative technologies, such as parking lifts and automated parking.

MB-P23: Allow on-street parking on new streets, where feasible, to provide convenient parking for customers, to slow traffic, and to provide a buffer between moving vehicles and pedestrians on the sidewalk.

MB-P24: Manage on-street parking in the Kapalama and Kalihi station areas to ensure the viability of businesses;

- Explore the feasibility of parking permits for property owners and tenants and/or a parking benefit district to help fund development of a district parking structure.

MB-P25: Develop shared parking among uses within close proximity of the station with different peak parking demand.

MB-P26: Allow for flexibility in parking requirements within the TOD Zone in order to encourage transit use, lower construction costs on new projects, and encourage use of nonconforming properties.

4 URBAN DESIGN

The Kalihi Neighborhood TOD Plan sets the framework for vibrant and livable mixed-use districts centered around the area's three rail stations. The urban design of these areas is integral to this framework and will ultimately determine the character, feel, and livability of the area. Urban design addresses physical elements such as buildings, blocks, and streets, as well as the activities and pace of life that they accommodate. It also includes the location, orientation and design of open space, the pedestrian realm, and landscaping elements.

This chapter describes the desired character of the station areas in terms of urban design, public open space, and public improvements. Specific policies address elements such as site planning, building massing and articulation, streetscapes, and signage in an effort to encourage vibrancy, beauty, and accessibility as expressed in the community vision. Safety, crime, and homelessness, which are central issues identified by community members, are also addressed through policies related to community design.



Birds-eye view showing hypothetical buildout of the Kalihi station areas, looking diamond head. The Kapalama station area is transformed into a new mixed-use district, while new parks and a broader range of uses enliven the Kalihi and Middle Street station areas.

4.1 Station Area Character

The Middle Street, Kalihi, and Kapalama station areas each have a distinct character that the Plan seeks to build on and enhance to create true transit-oriented communities and destinations. Illustrative renderings are included that show how the urban qualities of the area could be enhanced and new development integrated into the community.

Middle Street Station Area

The Middle Street Transit Center station area functions as the entrance to Kalihi from the west and is characterized by a range of uses: the transit center, industrial and commercial uses, Keehi Lagoon Park on the waterfront, and the Oahu Community Correctional Center (OCCC). The station area has limited opportunities for development given the multiple freeway off-ramps and overpasses, Fort Shafter military base east of Middle Street, and flood risk. Still, primarily large lots surround the station area, and a greater mix of uses is envisioned in the long term, including redevelopment of the Oahu Community Correctional Center and the surrounding area into a new neighborhood.

The station will serve as an important multi-modal transit hub by providing convenient bus-to-rail connections for residents coming from neighborhoods not served by rail. Aesthetic and circulation improvements in the area will be essential to creating a public realm that is conducive to walking and biking and that supports transit ridership, as shown in Figure 4-1. The Plan also seeks to improve connections from the station area to Sand Island State Recreation Area and Keehi Lagoon Park through new pedestrian/bicycle paths, a pedestrian bridge, and a promenade.

Kalihi Station Area

Surrounding Kalihi station are a range of uses—residential mauka of Dillingham Boulevard and a patchwork of industrial, commercial, and residential makai. Small lots and a regular grid pattern of streets provide better access between uses compared with the street networks around Middle Street and Kapalama station

areas. The vision for the Kalihi station area preserves the neighborhood's existing assets, while targeting sites for revitalization to improve safety and capitalize on rail access. Mauka of the station the Plan maintains the neighborhood's residential character, allowing residential development at slightly higher densities (low- and mid-rise apartments). Makai of the station, the mix of industrial and commercial uses is maintained. This provides for the continuation and upgrade of a variety of small businesses that exemplify Kalihi and ensures continued employment in the commercial and industrial sectors.

Along Dillingham Boulevard, the TOD Plan envisions a greater mix of uses to serve the neighborhood and transit users, and an improved streetscape to support pedestrian and bicycle travel, as shown in Figure 4-2. Although the street grid in this station area facilitates walking, side streets parallel to Dillingham Boulevard tend not to have curbs or sidewalks, and roadways are often obstructed by utility poles even where sidewalks do exist. As described in Chapter 3: Mobility, the Plan supports a “living street” concept for the side streets around Kalihi station. This concept seeks to accommodate all modes safely within a shared right-of-way without the financial burden of developing sidewalks, curbs and gutters.

Kapalama Station Area

The Kapalama station area is notable for the presence of Honolulu Community College, Kapalama Canal, several shopping centers, and warehouse and commercial uses that provide employment opportunities. Residential uses are currently limited. The Kapalama area is envisioned as the most transformed of the three station areas, becoming a high-intensity mixed-use urban district that capitalizes on its proximity to Downtown and Chinatown and adjacency to Honolulu Community College. Employment uses, including office and R&D facilities, would provide new job opportunities. High-density housing would accommodate a range of household types and income levels, creating a new neighborhood with a full range of facilities and services, including parks, retail stores, and existing schools.

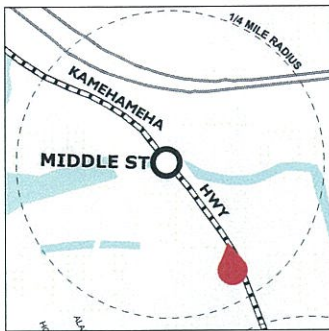
This new district should be safe and walkable. New streets would form a network that better connects the area to the waterfront, the rail station, and to both Downtown and other parts of Kalihi. The HCC Long Range Development Plan already calls for improved mauka-makai connections through the area; new streets and an improved canal will further integrate both the main and Kokea Street campuses within the new district. The Plan reduces average block lengths to about 350 feet, with new streets and blocks built largely on existing rights-of-way and parcel boundaries.

Townhomes and low- to mid-rise residential buildings overlooking Kohou Street and Kapalama Canal would

provide “eyes on the street,” help activate the canal’s edge, and reduce the perceived distance to the mixed-use corridor along King Street. At the same time, taller building masses situated along Kohou Street should be set back, in an effort to preserve views and a sense of openness along the canal. As shown in Figure 4-3, the banks of Kapalama Canal are envisioned as linear open spaces with seating, lighting, and pedestrian and bicycle promenades that create an important mauka-makai connection and provide views of the harbor and mountains.



Looking ewa along Puuhale Road. The Middle Street and Kalihi station areas are anticipated to intensify with new mixed-use development centered along the rail corridor. Improved connections to parks and the waterfront and enhanced streetscapes ensure that these districts become more livable as they grow.



**FIGURE 4-1:
ILLUSTRATIVE VIEW OF DILLINGHAM BOULEVARD LOOKING EWA TOWARD MIDDLE
STREET STATION AREA**



Existing.



Conceptual illustration of improvements on Dillingham Boulevard. Bike lanes, sidewalks, street trees and buildings that come up to the sidewalk improve safety and comfort for pedestrians and cyclists by reducing the perceived width of the street and creating dedicated facilities for walking and biking.

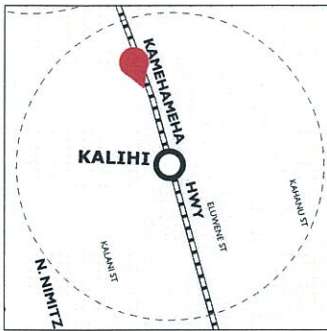


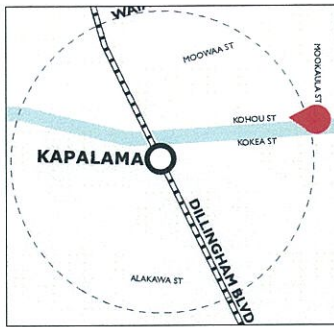
FIGURE 4-2:
ILLUSTRATIVE VIEW OF DILLINGHAM BOULEVARD LOOKING DIAMOND HEAD
TOWARD KALIHI STATION AREA



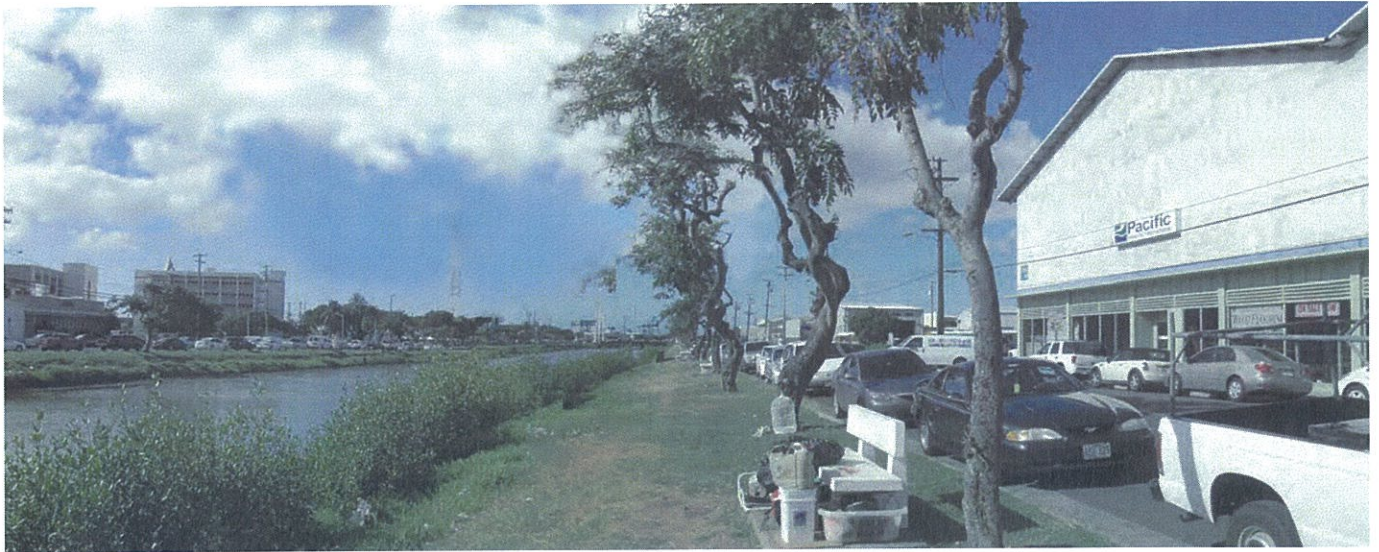
Existing.



Conceptual illustration of streetscape improvements and land use changes along Dillingham Boulevard. OCCC is consolidated into one portion of the site, creating opportunities for new community uses. Landscaping, bike lanes and sidewalks create a truly multi-modal street.



**FIGURE 4-3:
ILLUSTRATIVE VIEW OF KAPALAMA CANAL LOOKING MAKAI FROM KOHOU STREET**



Existing



Enhanced with paved pathways, landscaping, and pedestrian amenities, the Kapalama Canal's edge becomes a linear open space that connects the new mixed-use district with the waterfront. New high-density housing along Kohou Street overlooks the canal.

4.2 Open Space and the Public Realm

A high-quality public realm—the space between buildings, including streets—makes an urban area livable by supporting walkability and pedestrian activity. Open spaces are a central component of the public realm and critical to supporting livability in high-density neighborhoods. This section outlines proposed open space locations and types, including parks and promenades. It also addresses other key elements of the public realm, including plazas and pathways, which will help to form a cohesive network of public space. The policies section describes best practices for comfortable, safe, and high-quality spaces.

Public Realm

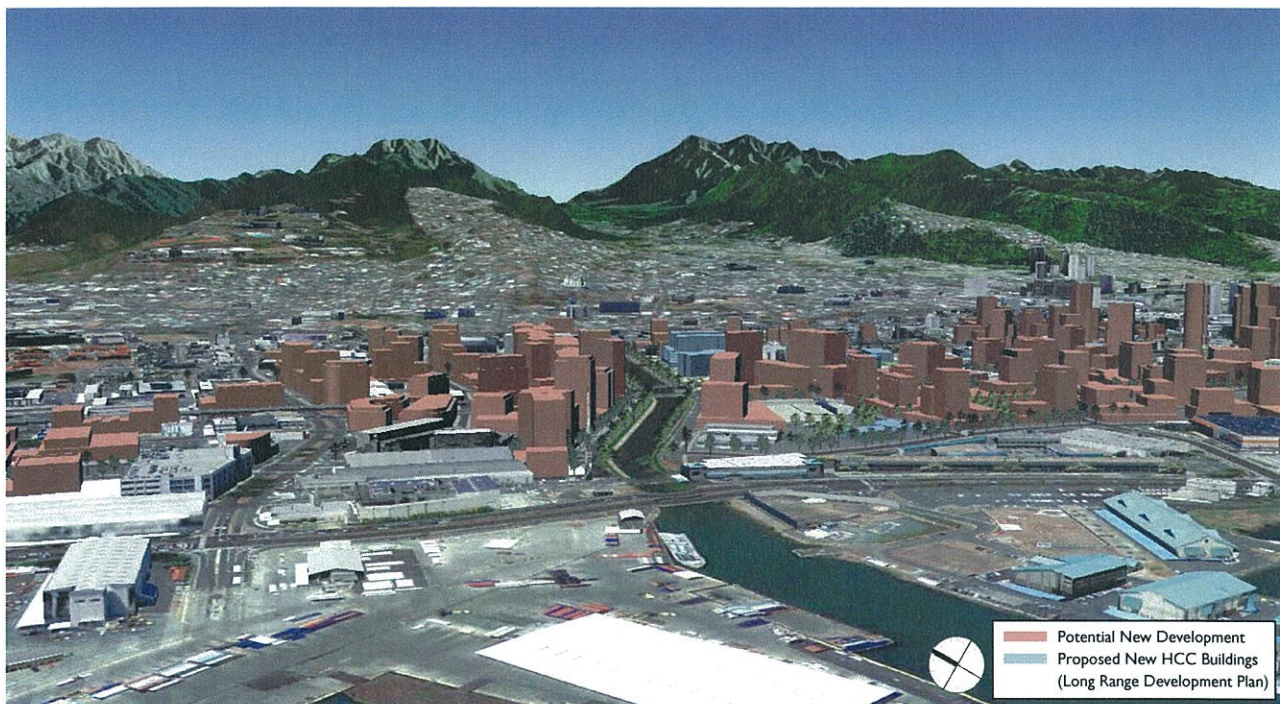
The public realm is an integral part of an urban area's character and helps to define the experience of all users, including those on foot, bicycles, and in vehicles. A well-defined and well-designed sidewalk supports active uses such as retail and community services by enhancing attractiveness and accessibility. The siting, orientation, and design of new development can also enhance the quality of the built environment, help create a pedestrian-scaled experience, and invite activity along the sidewalk. Figure 2-5: Active Ground-Floor Frontage and Pedestrian-Oriented Design, presented in Chapter 2, indicates the areas in which pedestrian-orientation is required of building design. Key aspects of pedestrian-orientation and the public realm are discussed below:

- **Sidewalk Improvements:** Sidewalk improvements should focus on creating wide and comfortable pedestrian spaces that allow people to comfortably walk and stop along Dillingham Boulevard and other locations (e.g., Middle Street) where pedestrian facilities are lacking. New streets, pedestrian and bike paths, and bridges should serve to break up larger blocks around the Kapalama station and create a more navigable public realm.



Sidewalks near stations should be wide enough to accommodate the high levels of pedestrian activity anticipated with a clear pedestrian pathway free of obstacles, such as utility poles. Landscaping and street furniture can provide a safety buffer between pedestrian and vehicle traffic, and streets lined with active uses and windows help create vibrant districts, as shown in this San Francisco example (bottom).

- **Block Size:** Block length is a central factor in determining the walkability of an area. Human-scaled block sizes shorten trip lengths, provide more opportunities for street crossing, and increase route choices. Increased connectivity is needed around the Kapalama station, which currently has large blocks.
- **Street Interface:** The relationship between the building and the street helps shape a district's identity and contributes to the overall pedestrian experience. A cohesive street frontage with well-designed building facades creates an attractive and identifiable character and encourage people to walk, shop, and dine in an area.
- **Streetscape and Façade Improvements:** Streetscape improvements along key streets should enhance the pedestrian and bicycle environment and provide identity and thematic continuity to districts. Streetscapes should have a well-defined palette of street trees, plantings, paving materials, and signage to create a cohesive identity for the public realm. Likewise, façade improvements can serve to provide identity along existing pedestrian and bike paths, as well as along major corridors.
- **Directional Signs:** Signage can help enhance a district's identity if it is carefully integrated into the public realm. Signage can also be used to indicate appropriate routes to transit and other community destinations, such as the waterfront or Honolulu Community College.
- **Site Planning:** Site design includes the overall orientation of buildings and open spaces and their interface with adjacent streets and development. Careful site planning can support walkability at the street level and result in a space that can be easily navigated. The strategic location of buildings and parking can enhance visual interest and increase pedestrian safety.
- **Parking Design:** Innovative siting and design of parking areas contribute to a safe and convenient pedestrian environment and an attractive street frontage. See Section 6.2 for more detail.
- **Building Massing:** Massing can be designed to ensure compatible scale, access to sunlight/shade, and a visually interesting skyline. Bulky buildings, on the other hand, can obstruct light and views and contribute to an unpleasant public realm.



Illustrative buildout of Kapalama looking mauka. New high-intensity development on smaller blocks within the Kapalama station area creates a vibrant mixed-use district. The promenade along the canal serves as the district's central mauka-makai connection and recreational open space.

Open Space

Existing Parks and Open Space

Open spaces and parks are currently limited around the Kalihi stations, as shown in Table 4-1 and Figure 4-4. Although Keehi Lagoon Park is a large park at 72 acres, it is not easily accessible from anywhere in the Kalihi corridor. The Mokauea Street Mini Park provides playground facilities, half-court basketball, and open space mauka of the Kalihi station. Kalakaua District Park between Kalihi-Kai Elementary and Kalakaua Middle School is used by the surrounding schools by day and available to the public (e.g., organized sports teams from throughout the city) during non-school hours. These two parks provide just over eight acres, which equates to only 0.8 acres of park per 1,000 residents, based on current average household size. The TOD Plan seeks to improve on this deficiency to improve the provision and safety of, and access to, open spaces.

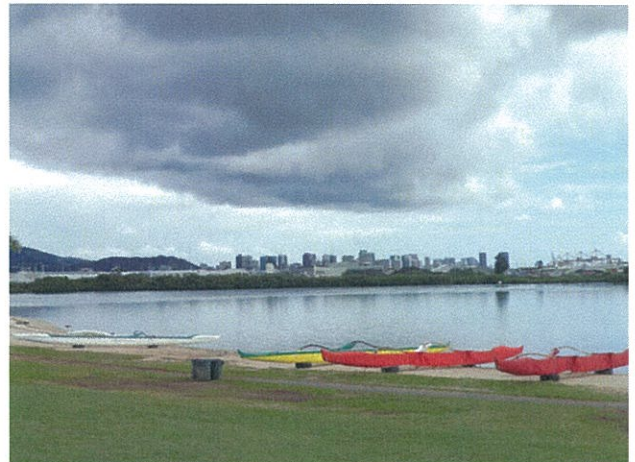
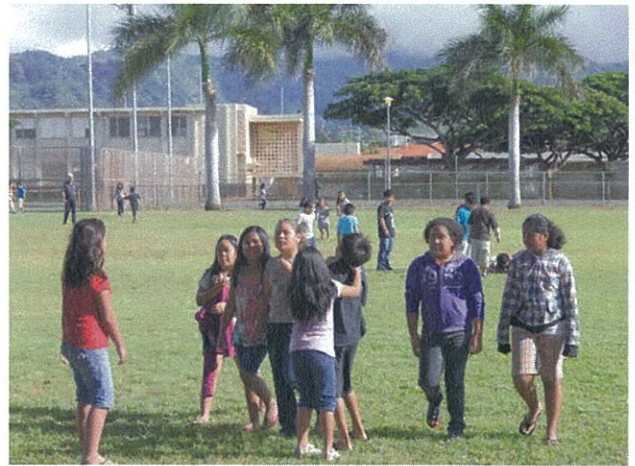
TABLE 4-1: EXISTING PARKS

| NAME | TYPE | ACRES |
|--------------------------|---------------|-------------|
| Kalakaua District Park | District Park | 7.8 |
| Keehi Lagoon Park | Beach Park | 72.0 |
| Mokauea Street Mini Park | Mini Park | 0.3 |
| TOTAL | | 80.1 |

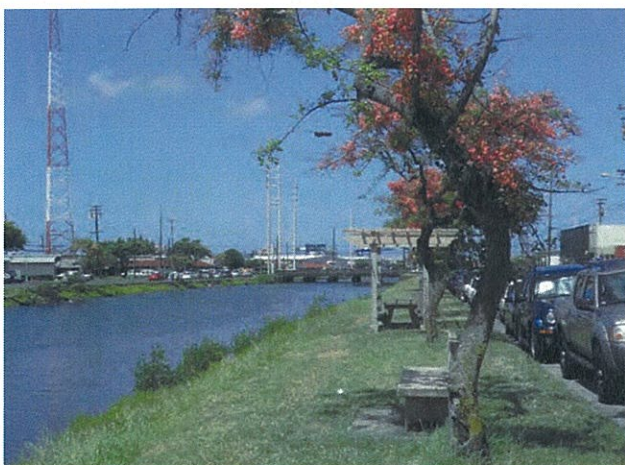
Source: City and County of Honolulu, Department of Parks & Recreation and Department of Planning & Permitting, 2011

The City categorizes parks into several categories. The following types may be appropriate in the Kalihi corridor:

- **Community Parks:** typically up to 10 acres and serving a one-mile radius of residents, which may have a variety of amenities including ball fields and basketball courts;
- **Beach Parks:** typically at least five acres providing day-use access to picnic areas and beaches;
- **Neighborhood Parks:** typically about 4-6 acres and serving a ½-mile radius of residents;
- **Mini Parks:** small parks serving a ½-mile radius of residents, with benches, tables, landscaping, and perhaps a children's play area;
- **Urban Parks:** small plazas or parks with landscaping, typically produced as part of development projects for public and/or private use; and



Parks in the Kalihi corridor are essential components of the neighborhood's pride and identity, but they are not well distributed and are limited to the Mokauea Street Mini Park (top), Kalakaua District Park (middle), and Keehi Lagoon Park (bottom). The TOD Plan seeks to improve on the distribution of parks, particularly as the station areas develop.



Community gardens (top), small plazas (middle), and linear connections (bottom) provide essential opportunities for gathering and relaxation, as shown in these local examples. Park dedication requirements will help to develop open space coincident with new development.

- Linkages: the bikeways, pedestrian paths, and other connections between destinations, including the transit stations and open spaces.

Existing Standards and Policies

The City's Department of Parks and Recreation's Standards and Design Precepts for Future Park Development (2004) provides recommendations and standards for size, amenities, parking, and access by various park types (e.g., two acres of neighborhood parkland per 1,000 residents). It contains policies for promoting the joint use of facilities and park financing strategies through exactions, incentives, zoning, and streamlining the park dedication ordinance. It recognizes that parks are limited in the Kalihi corridor and recommends several strategies for expanding open space access, including sharing Palama Settlement facilities through a joint use agreement; developing a park on the peninsula in Keehi Lagoon; and developing a sports complex at Fort Shafter in agreement with the United States Army Pacific.

The City's Subdivision Ordinance specifies that park space provided by residential developments can either be accessible by the occupants of lots or units, by the public, or both. The requirement applies to land being subdivided into two or more lots and to the construction of multi-family developments. The regulation stipulates the land area required for parks for various residential designations and districts. For example, in special districts (e.g., Chinatown Special District), multi-family dwellings require parkland that totals 10 percent of the maximum permitted floor area or 110 square feet per unit (whichever is less). The same standard is applied to apartment buildings in mixed-use districts. In lieu fees may also be acceptable in meeting the park dedication requirement.

Open Space Framework

The Plan proposes several new parks and open spaces, and it recommends green connections between existing and future open spaces, including new public promenades along Keehi Lagoon and Kapalama Canal. Open spaces should be developed as the station areas intensify to provide amenities for residents and visitors, to encourage people to live in urban areas, and serve as an additional catalyst for new development.

Figure 4-4 shows conceptual locations for new parks around all three stations, as well as improved access to regional parks (i.e., Sand Island Recreation Area and Keehi Lagoon Park) from the Middle Street station. Along Kapalama Canal, new promenades would enable passive activities and active recreation and create a continuous mauka-makai route for pedestrians and cyclists. Parks may be developed in a variety of forms depending on location and community needs, including small hardscaped plazas at well-traveled corners near the stations, linear landscaped streets that connect destinations, and at least one large community park to serve the growing population in Kapalama. Regardless of the park type, safety and accessibility are paramount.

Key improvements include:

- Two new large **Community Parks** (at least five acres total) serving the existing and new population in the Kapalama and Middle Street districts. A community park should include recreational opportunities, such as ball fields, picnic areas, seating, and potentially a community center that can support programs and services. Exact locations will need to be sited but have been shown conceptually along Alakawa Street and just north of OCCC—both within proposed high-density, mixed-use neighborhoods.
- A **Beach Park** on the peninsula in Keehi Lagoon, creating a regional park destination that is linked to Keehi Lagoon Park and the Middle Street station by new pedestrian/bicycle connections across the stream and Nimitz Highway. This park may allow for boat launching, beach access, and picnicking. The waterfront area along the south edge of Keehi Lagoon may ultimately be considered for improvement into beach park as well.
- Small **Urban Parks and Plazas** including public/private spaces developed as part of new development projects' open space requirements would provide space for rest and shade near transit stops and active pedestrian areas. At Kapalama station, this could be developed in partnership with Honolulu Community College. These may also be in the form of accessible rooftop open spaces and community gardens within new or redeveloped residential or commercial development, as long as designs demonstrate that security, safety, tenant privacy, and maintenance can be upheld. Actual locations will need to be identified by the City and private developers during the development process.
- “**Green Streets**” are proposed along several new streets in the Kapalama station area and on Alakawa, Kalani, Kalihi, Mokauea, and Kaumualii Streets. These streets connect existing and planned open spaces to create an open space network, improve walkability and livability, facilitate access to the promenades, and create mauka-makai connections that highlight views. Green Streets are characterized by a regular spacing of large shade-providing street trees on both sides of the street. Tree species should be consistent along the length of each Green Street.
- **Promenades** are identified along the waterfront in the Middle Street station area and along Kapalama Canal. These promenades serve as key features of the open space and circulation networks, providing an opportunity to walk, bike, and sit along the water, while also connecting destinations with the rail stations. The Kapalama Canal promenades create mauka-makai connections and view corridors from the piers on the makai side of Nimitz Highway to mauka of King Street (approximately two-thirds of a mile along both sides). The waterfront promenade in the Middle Street station area would be in the form of a trail, improving access to existing and proposed waterfront open spaces. Ultimately, it would extend from Keehi Lagoon Park to Keehi Marina.
- **Pedestrian access** from the Middle Street station platform to the trail makai of the station and a pedestrian bridge over North Nimitz Highway create a continuous path from the Middle Street Intermodal Center, through the rail station, and along the waterfront to Keehi Lagoon Park.

Together, this proposed network of open spaces provides guidance for how new development can improve recreational opportunities in Kalihi. The TOD Plan proposes over 37 acres of open space: 2.5 acres per 1,000 new residents, not including promenades and Green Streets. This potential increase in parks and open space could result in almost 45 total acres of parkland throughout the ½-mile area and improve the ratio of park acreage per 1,000 residents to 1.8.



Green Streets provide connections between open spaces and other activity centers and are distinguished by elements such as trees and plantings, wide sidewalks, pedestrian pathways, and public art.



DYETT & BHATIA

The promenades are envisioned as shared spaces for pedestrians, joggers, and bicycles to promote community health, link open spaces and the waterfront, and connect to rail stations and other destinations. Ala Wai Boulevard in Waikiki (left) and Carlsbad, CA (right) provide examples.



DYETT & BHATIA



DYETT & BHATIA

Open spaces do not need to be grassy areas to be successful and to provide "green" space. Hardscape areas can ease maintenance, while providing seating, shade, signage and event space, as shown by these examples from Mountain View, CA (left) and Walnut Creek, CA (right).



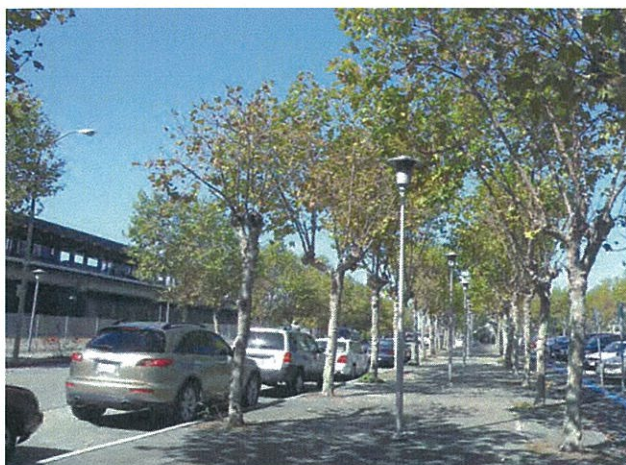
4.3 Safety and Community Health

The physical environment influences community health in many ways, including access to housing, jobs, transit, and health services; the ability to walk and exercise in one's community; air quality and noise impacts from vehicles traveling on freeways and major streets; and the prevalence of crime and violence.

Safety

Community members have expressed concern about safety, crime, and homelessness in the Kalihi corridor, particularly how these issues affect community health, the safety and cleanliness of streets, the viability of rail, and potential development opportunities. The design of the public realm can help deter crime, lead to increased safety, and improve quality of life. Adding “eyes on the street” through housing with stoops or balconies and maximizing windows and transparency can also help create a greater sense of community and facilitate neighbor interaction.

Crime prevention through environmental design can help reduce actual and perceived crime problems. The policies below discuss maximizing visibility and natural surveillance and controlling access through differentiation between public and private space. Although these considerations are part of larger problems that the TOD Plan alone cannot solve, policies identified in this plan seek to integrate social services while improving the overall appearance and safety of the station areas.



Community Health

Honolulu's mild year-round climate, and the relatively flat topography of the Kalihi corridor make it an ideal place for true urban living—to walk to jobs and stores, take the train to a football game, or jog along the waterfront. The Plan seeks to promote active living by creating complete neighborhoods with a variety of commercial amenities to serve everyday needs, improving access to the train stations and between neighborhoods, and creating a livelier, engaging public realm that invites walking, biking, and lingering. Improving non-automobile travel is particularly important for the Kalihi neighborhood given the number of children, seniors, and low income families—groups that typically do not drive or own cars. Making recreation facilities more accessible—dispersing them throughout the community and making programs affordable to low-income residents—will also increase the likelihood that all residents will incorporate healthy activity into their daily lives.

Furthermore, sustainable development also contributes to the health and welfare of residents. The construction, operation, and demolition of buildings and landscapes should be accomplished sustainably, through natural resource conservation and energy efficiency, to ultimately increase economic vitality and improve the health of employees and residents.



Safety and security around the stations will depend in part on the design of the public realm. Walkways should have clear sightlines and good lighting, and stations must be well-maintained and visible from the public right-of-way.

4.4 Goals and Policies

GOALS

Station Area Character

- UD-G1:** Promote station area environments that are clean, safe, and attractive, and that have a range of amenities, such as personal services and cafés, that will attract transit users.
- UD-G2:** Improve linkages—for pedestrians, bicyclists and buses—between the stations and the surrounding areas.

Public Realm and Design

- UD-G3:** Create memorable and livable streets and streetscapes that promote neighborhood identity and enhance pedestrian comfort and safety.
- UD-G4:** Design high-quality architecture and site plans that are well-integrated with public streets and enhance the livability of the districts.
- UD-G5:** Establish an integrated framework for the public realm, including a unified street tree scheme, pedestrian amenities, and publicly-accessible private open spaces, to achieve the vibrant district expressed in the community vision.

Open Space

- UD-G6:** Provide an open space of at least one-quarter acre within a five-minute walking distance of all residential development within the TOD Zone.
- UD-G7:** Integrate parks and plazas throughout new development along pedestrian and bike paths to create a cohesive and connected open space network.
- UD-G8:** Design open spaces to be well-lit, visible from public streets, and thoughtfully programmed to encourage use during the day by families, seniors, and workers on break and in the evenings by professionals and recreational sports teams.

Safety and Community Health

- UD-G9:** Design high-quality open spaces and a public realm that is safe, accessible, and integrated into the existing community, balancing new high-density development.
- UD-G10:** Improve access to a variety of transportation modes and opportunities for physical activity that enhance health and support community members of all ages, lifestyles, incomes, and abilities.

POLICIES

Station Area Character

- UD-P1:** Support the development of stations as destinations in and of themselves by inviting private investment and integrating a variety of uses. Develop partnerships with local businesses to provide basic amenities at each station, such as public restrooms, cafés, personal services, banks, and day care centers.
- UD-P2:** Work with the Honolulu Authority for Rapid Transportation (HART) to implement technology that provides real time information about departure and arrival times of trains (e.g., through a cell phone application and information screens at street locations and nearby businesses), and provide wireless internet access in and around the stations.
- UD-P3:** Support connections to key transit stops from surrounding neighborhoods with visible and coherent directional signs, and street lights that complement the streetscape.
- UD-P4:** Design wayfinding and other signs with features, materials, and colors that are consistent with the scale and character of the district in which they are located.
- Locate directional signage at key locations to indicate routes to transit, the waterfront, promenades, and major destinations.
- UD-P5:** At Kapalama station, coordinate with Honolulu Community College to integrate station access into the campus through a plaza and supportive uses.

Public Realm and Design

STREETSCAPES, SIDEWALKS, AND THE STREET INTERFACE

(Also see Chapter 3 policies on living streets and street design)

- UD-P6:** Design sidewalks to include an unobstructed path for travel, separate from street landscaping and street furniture areas. Reserve the area closest to the curb for street trees, landscaping, street lights, bus stops, street signs, trash/recycle bins, bicycle parking, street furniture, and newspaper boxes.
- UD-P7:** Create walkable blocks of approximately 350 feet in length around the Kapalama station. Provide mid-block pedestrian connections on longer blocks that maintain sight lines from one end to another; install clear signage that acknowledges that the space is for public use.
- UD-P8:** Scale development along pedestrian-oriented retail streets and pedestrian connections with fine-grained, highly articulated facades, changes in materials, ample fenestration, and visible entryways. Equip pedestrian paths with shade trees, seating, kiosks, lighting and other amenities.
- UD-P9:** Retain historic curb stones wherever they currently exist, and restore them in areas where they were used historically.
- UD-P10:** Implement low-impact design and storm-water management best practices and maximize porous surfaces in the design of development sites, streets, and streetscapes, especially around the Middle Street station where flood risk is highest.
- UD-P11:** Maintain pedestrian safety and the health of trees by planting street trees with non-aggressive root systems and allowing adequate tree planting area to avoid uplift of pavement.
- UD-P12:** On Bannister Street, Gulick Avenue, Kopke Street, and the intersecting streets, where streets are narrow and in disrepair and sidewalks are missing, prioritize safety for all modes. Where possible, clearly mark parking and walking aisles, and improve parking and code enforcement.

UD-P13: Maintain a continuous street wall along public streets. Articulate building facades with three-dimensional elements that create a visual play of light and shadow, including balconies, recesses, reveals, and brackets:

- Maximize transparency of ground floor non-residential uses through large windows and architectural features.
- On blocks where active street frontage is required, limit the length of blank walls to 20 feet. Where active frontages are allowed, limit the length of blank walls to 60 feet. Use murals, public art, living walls, and landscaping where windows and articulation are not feasible.
- Provide awnings and overhangs over the sidewalk to enhance pedestrian comfort.
- Orient public entrances to face a public street or open space and ensure that they are visible and accessible from the street.
- Encourage façade improvements along King Street to boost the economic viability of independent stores. Develop a façade improvement program to assist business owners with improvements that enhance the pedestrian quality of key corridors.

SITE PLANNING AND BUILDING MASSING

All Stations

- UD-P14:** Locate buildings close to the sidewalk in order to define the public realm and provide active uses next to the sidewalk. Buildings may be set back to allow for outdoor dining, plazas, or other active public spaces.
- UD-P15:** Maximize physical and visual access to the waterfront.
- UD-P16:** Employ passive cooling methods in building design. This may include natural ventilation; ground-level, roof-level, and terrace-level shading structures; evaporative cooling; and high thermal mass of building materials.

UD-P17: In areas where building height regulations transition, step back upper levels of building to transition to adjacent lower building heights.

UD-P18: Design parking areas that contribute to a safe, convenient pedestrian realm, a sustainable built environment, and an active street frontage:

- Locate parking to the side or rear of buildings, in structures wrapped with active uses at the ground level, or behind decorative architectural elements.
- Limit curb cuts and driveway entrances to reduce conflicts with pedestrians. Locate driveway entrances on side streets and access drives whenever possible.
- Provide direct pedestrian connections between buildings, parking areas, public sidewalks, and transit. Design walkways to be adequate in width and differentiated from parking and driveway areas.
- Design loading areas to be off the public right-of-way and screened from the sidewalk.
- Provide secure bicycle parking near building entrances and exits.

UD-P19: Where industrial or warehouse uses abut residential buildings, provide transitions and buffers from noise and unsightly uses. Buffers may involve decorative screening or natural landscape materials such as trees, shrubs, vines, or living walls (e.g., concrete wall with creeping vines).

Middle Street Station Area

UD-P20: On large parcels, establish site plans for mixed-use development that integrate pedestrian pathways, connections to parks, Green Streets, and access to Kamehameha Highway.

UD-P21: Define a street wall along Dillingham Boulevard by reducing setbacks and bringing buildings to the sidewalk edge, thus reducing the perceived width of the roadway and creating a more pedestrian-oriented street.

UD-P22: When a parking structure is visible from the public right of way, employ decorative architectural elements or wrap active uses at the ground level. Avoid large, contiguously paved parking lots. Instead disperse parking throughout the project into smaller parking areas.

Kalihi Station Area

UD-P23: Ensure that new buildings and entries orient toward Dillingham Boulevard and Puuhale Road for maximum visibility and access.

UD-P24: Within existing residential neighborhoods, encourage new development that provides ample sidewalks, inviting street edge treatment, and adequate street lighting while maintaining privacy to adjacent residential properties.

UD-P25: Along Mokauea Street and Kalihi Street (Green Streets), provide a safe walking environment at all times by encouraging developments with street-oriented entries and windows and pedestrian lighting.

Kapalama Station Area

UD-P26: Encourage building variation and articulation through changes in building height and massing. Design towers to be slender and stagger them to minimize shadows and protect waterfront views. Along Kohou Street, set towers back from the canal to preserve views.

UD-P27: For new developments along Kapalama Canal, encourage windows, entryways, and stoops that face the canal, and locate active ground-level uses facing the canal where feasible.

Open Space

UD-P28: Develop at least one large park (of at least five acres) within a ½-mile of Kapalama/Iwilei stations. A large park should provide recreational facilities such as community centers, basketball courts, ball fields, children's play areas, picnic areas, and restrooms.

UD-P29: In the Kapalama station area, where space may be limited, provide open space in the form of plazas and accessible rooftop gardens. Provide active uses along or

within these spaces, as well as amenities such as seating, shade, and landscaping. Clearly indicate access to rooftop gardens through signage that is visible from the public street.

- UD-P30:** Require a minimum dimension of eight feet for all open spaces (publicly accessible as well as private).
- UD-P31:** Provide a diverse range of amenities in park spaces, including benches, trees, lighting, drinking fountains, and trash receptacles. Provide a mix of landscaped and hardscape areas that provide opportunities for resting and shade, outdoor eating, and other activities.
- UD-P32:** Design promenades to create a sense of continuity and cohesiveness, with opportunities for walking and biking along the waterfront, lingering at overlook points, and visiting multiple destinations:
 - The promenades should display a unified urban design scheme, with amenities such as benches, art, landscaping, lighting, banners, textured paving, and spaces for vendors and public functions.
 - Kapalama Canal: Provide continuous pedestrian walkways on both sides of the canal. Design Kohou Street as a slow vehicle street, with design elements such as special pavers, pedestrian areas defined by bollards, and a clearly marked parking aisle. Locate any open spaces and plazas adjacent to the promenade, and design them to provide a transition between private and public space.
 - Keehi Lagoon: Design the promenade along Keehi Lagoon to encourage the exploration of recreation and park areas through signage and kiosks, facilitating pedestrian and bicycle access between Middle Street station and Keehi Lagoon Park. Ensure that design is compatible with flood risk projections. Establish a clearly-marked path from the Middle Street Intermodal Center to Keehi Lagoon Park. Transitions to pedestrian bridges and waterfront trails should be inviting and seamless.

UD-P33: Emphasize visibility and access to open spaces abutting streets or promenades by providing seating and shade along open space edges.

UD-P34: Where possible, orient private open spaces, such as courtyards, balconies, and building entrances toward open spaces to provide a transition between private and public activities and to increase safety.

UD-P35: Maximize the efficiency of open spaces through joint usage and alternating time-of-day uses. Joint (co-located) uses may include schools and rooftop gardens; parks and child care facilities; and subterranean or tuck-under parking below new parks and plazas.

Safety and Community Health

UD-P36: Engage merchants, the Police Department, mental health and social service providers, and other stakeholders in defining critical issues and actions.

UD-P37: Ensure that community members can access communication services such as emergency phone kiosks during emergencies.

UD-P38: Provide safe and durable 24-hour public toilets with clear signage, and provide for their ongoing maintenance, security, and frequent cleaning.

UD-P39: Provide adequate cleaning and maintenance of sidewalks and street furniture to support and attract pedestrian activity.

- UD-P40:** Ensure that buildings are oriented to streets and open spaces, and enhance community safety through a variety of design techniques:
- Orient windows and balconies towards public streets, open spaces, and parking areas.
 - Ensure that building entrances and parking areas are well lit and that clear visibility can be maintained from inside the building to the street and sidewalk.
 - Maintain low-growing landscaping to provide good visibility to neighboring areas and enhance the sense of place.

- Design and locate lighting to illuminate buildings and walkways so that they are visible from afar. Incorporate decorative and pedestrian-scaled lighting.
- Emphasize sight lines and access to public spaces, parks, the waterfront, and promenades via pedestrian connections, landscaping and signage.
- Involve residents in neighborhood improvement efforts, including issues concerning safety, neighborhood character, planning, and revitalization.

UD-P41: Develop a program of community and recreational activities and events to activate key parks, with an emphasis on evening and weekend activities.

- Work with interested community members and organizations to plan and develop an exercise circuit that takes advantage of existing parks, and other pedestrian infrastructure. The course should be clearly marked, and contain simple stations and diagrams for self-guided training.

UD-P42: Support clean fuel vehicles in order to reduce energy use, energy costs, air pollution and greenhouse gas emissions by residents, businesses, and city government activities.

UD-P43: Continue to pursue Safe Routes to School funding and infrastructure development opportunities to improve students' opportunities for safe walking and bicycling to and from schools and to improve the overall health and well-being of children.

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5 PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE

This chapter outlines strategies to maintain and improve the public and quasi-public facilities, services, and infrastructure that are essential parts of a livable and sustainable community. Public facilities and services, including affordable housing, social services, police and fire service, schools, and other institutions, contribute to the iden-

tity and social equity of the community, while infrastructure improvements—including sewer, water supply, and drainage—ensure that growth and development are responsibly managed and accommodated. Streets, sidewalks, parks and open space are addressed separately in Chapters 3 and 4.



The Kalihi Neighborhood TOD Plan supports the development of public facilities and services in concert with residential and commercial development to ensure a livable and sustainable future.



Educational institutions serve as important community centers, especially in the Kapalama and Kalihi station areas, where several schools are located.

5.1 Public/Quasi-Public Facilities and Services

Police and Fire Facilities

The Honolulu Police and Fire Departments manage public safety in the city. However, there are no police stations within the Kalihi ½ -mile planning area. There are two fire stations in the ½-mile planning area: at North King and Kalihi Streets and at Waiakamilo Road and Nimitz Highway, as shown on Figure 5-1.

As growth and development occur in the corridor, fire and police capacity will have to be evaluated to ensure that station locations and staffing levels are adequate to maintain acceptable levels of service.

Education and Library Services

Education and youth development are primarily undertaken by local K-12 schools in the corridor, as well as Honolulu Community College. These institutions primarily serve students and their families, but they also serve as centers of community activity for all Kalihi residents.

K-12 Schools

There are several schools in the ½-mile area, serving as both educational institutions and community gathering places, as described in Table 5-1 and shown in Figure 5-1. In general, elementary school students living in the Kalihi corridor attend either Puuhale or Kalihi-Kai, depending on whether they live makai or mauka of Dillingham Boulevard, respectively. Kalakaua Middle School serves students in Kalihi on a site adjacent to Kalihi-Kai Elementary and Kalakaua District Park. Farrington High School lies just beyond the ½-mile area and, with a larger catchment area, requires that students travel somewhat longer distances to school whether on foot, by bicycle, by transit, or by car.

In recent years, the DOE has developed a school impact-fee program to collect fees in high-growth areas to help mitigate the costs of constructing and rehabilitating schools. To calculate this fee, the department determines student generation rates based on the type

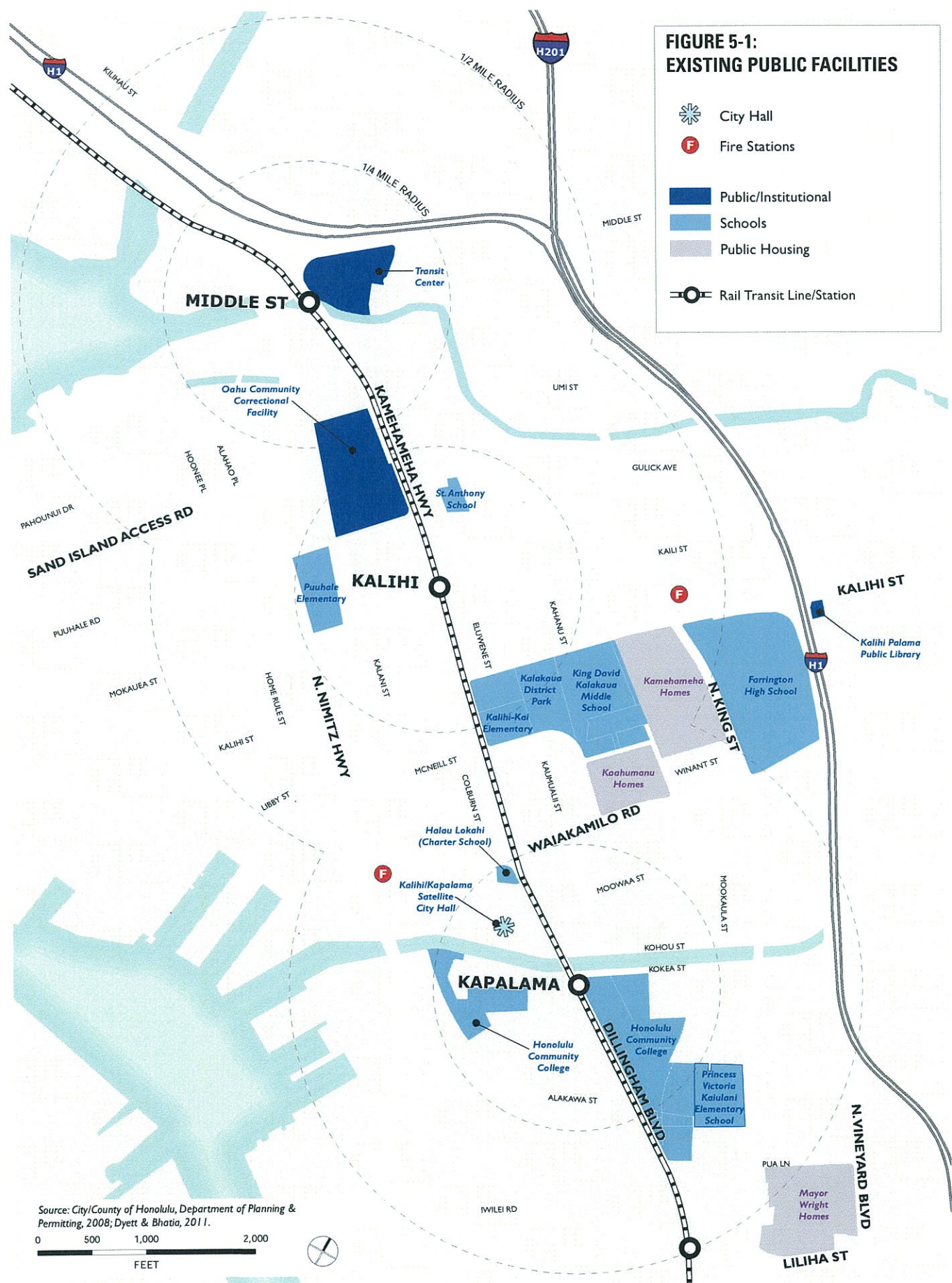


TABLE 5-1: CHARACTERISTICS OF SCHOOLS IN THE KALIHI CORRIDOR

| | GRADES | STUDENT ENROLLMENT | ECONOMICALLY DISADVANTAGED |
|---------------------------------------|--------------------|--------------------|----------------------------|
| Puuahale Elementary | Pre-school and K-5 | 262 | 82% |
| Kalihi-Kai Elementary | Pre-school and K-5 | 627 | 77% |
| Princess Victoria Kaiulani Elementary | Pre-school and K-5 | 421 | 89% |
| King David Kalakaua Middle | 6-8 | 1,040 | 74% |
| Farrington High School | 9-12 | 2,374 | 67% |
| Halau Lokahi (charter) | K-12 | 239 | |
| St. Anthony School (private) | K-8 | 92 | |
| TOTAL | | 5,055 | |

Source: *Hawai'i Public Schools, Enrollment Report 2013-2014 and School Status and Improvements Report 2012-2013 (public); GreatSchools.net (charter and private).*

of new housing (for example, multi-family affordable housing is expected to generate more students than resort-oriented condos). At this time, no district in urban Honolulu has been identified as an impact fee area. Still, as described in Chapter 2: Land Use, the Kalihi Neighborhood TOD Plan area could accommodate approximately 6,000 new housing units in the ½-mile area over the next 20 years, which will generate new students. The City will need to coordinate with the DOE regarding anticipated new residential development to ensure that the capacity of public schools meets the needs of the future student population.

Higher Education

Honolulu Community College's main campus occupies over 20 acres along Dillingham Boulevard and Kokea Street, directly adjacent to the Kapalama station location, establishing it as a prime TOD location with a captive pool—students, staff, and professors—of potential transit users. An auxiliary site is located on Kokea Street, one block makai of the main campus. Honolulu Community College is part of the University of Hawaii (UH) system, providing career and technical education, as well as direct transfer to UH or other colleges with complete four-year baccalaureate degree programs. Many of the College's programs have ties with local industries, such as aeronautics, automotive technology, carpentry, commercial aviation, communication arts, and industrial education.

HCC has recently undertaken a master planning effort to redevelop its campus. This Long Range Development Plan acknowledges the potential benefits of the college's location adjacent to rail transit and seeks connections to and integration with the Kapalama station. The plan includes new instructional facilities; pedestrian connections through campus and a pedestrian-only mall leading to the rail station; a student union to provide more recreation and activity space for students; and a parking garage that may include ground-floor commercial uses and housing above the parking decks. New buildings, between two and six stories tall, would increase the overall density of the campus. Sustainability principles, including energy efficiency and native landscaping, are key tenets of the plan.

Public Libraries

Although there are no public libraries in the immediate ½-mile area, the Hawaii State Public Library System does have a branch, the Kalihi-Palama Public Library, on Kalihi Street just mauka of the H-1 freeway. The library can be accessed from Kalihi Street which bridges across H-1. A pedestrian bridge from Farrington High School provides pedestrian access to Kalihi Street, avoiding conflict with the freeway on-ramp.

Affordable Housing and Social Services

Affordable housing and social services for homeless, youth, seniors, and low-income persons are necessary components to achieving the high quality of life expressed in the community's vision for all residents, regardless of age, income or disability.

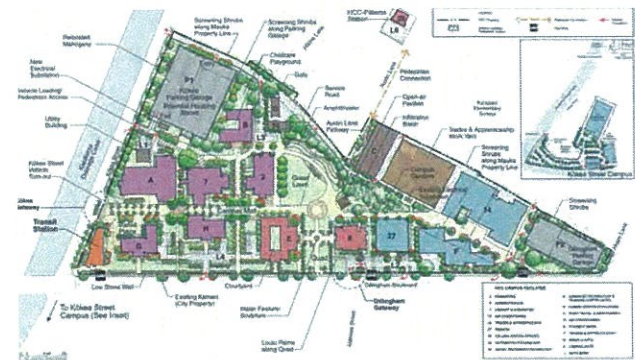
Income-Restricted Housing

There are two income-restricted housing developments within the ½-mile area, providing approximately 375 public housing units: Kaahumanu Homes and Kamehameha Homes. In addition, Mayor Wright Homes is located just beyond the ½-mile area (and is discussed in the Downtown Neighborhood TOD Plan). Many more income-restricted housing developments are located in Kalihi Valley and closer to the Iwilei station. While subsidized housing is somewhat limited, market-rate housing in the corridor is still often relatively affordable for residents due to the older age of the housing stock, crowded conditions, units in disrepair, and low rent.

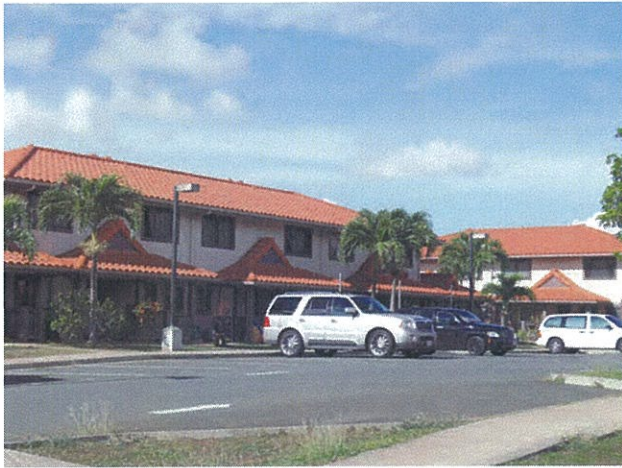
Social Services

There are a variety of social service providers in the Kalihi corridor including, but not limited to:

- Helping Hands Hawaii serves over 3,000 clients per year at its location makai of the Kalihi station. They provide services for low-income residents with mental health problems living in transitional housing; financial services for persons with language barriers; donations for families (clothing, food, furniture, bus passes); behavioral support; and school supplies for kids.
- The Susannah Wesley Community Center, located mauka of the Kalihi station area, provides a range of services to youth, adults, and seniors, with an objective to provide comprehensive services that promote the self-sufficiency of each individual and family.
- Kalihi-Palama Health Center on North King Street is a full service outpatient health center offering behavioral, dental, and family health services, in addition to women's health, homeless, education, Women, Infants & Children's Nutrition (WIC), and other services.
- Honolulu Community Action Program, located within Kamehameha Homes, delivers need-based

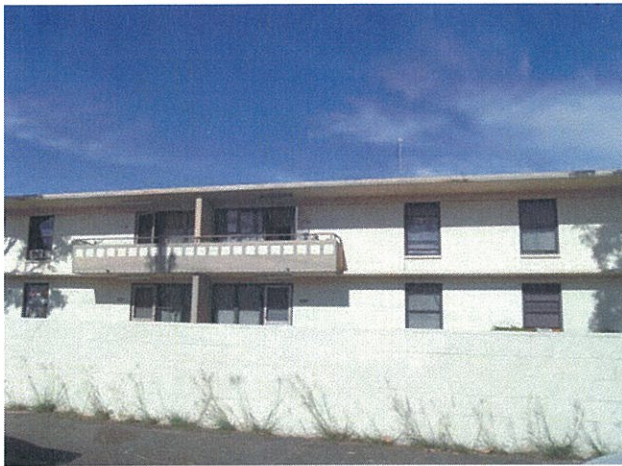


The Honolulu Community College Long Range Development Plan calls for expanded educational, training, and social spaces, and it embraces the Kapalama rail station.

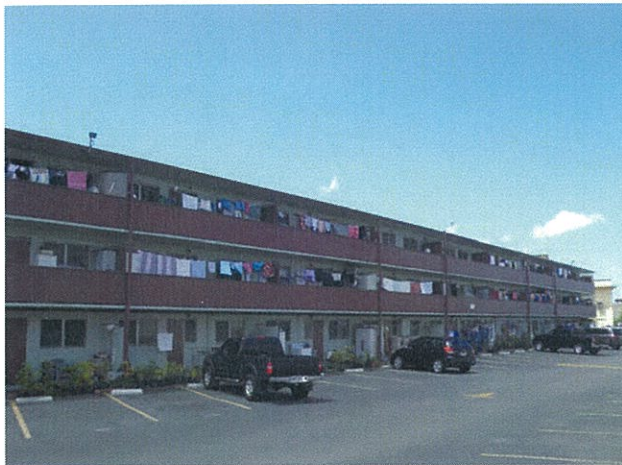


- The Hawaii Foodbank is the only nonprofit agency in the state of Hawaii that collects, warehouses, and distributes mass quantities of both perishable and non-perishable food to 250 member agencies by providing services in collecting, sorting, salvaging and distributing food. They are located on Kiliha Street, ewa of H-1 and the Middle Street station.

Future Needs



Based on discussions with residents, developers, property managers, and other stakeholders, community members and affordable housing providers lament that the demand for affordable housing far exceeds the supply, especially given the high cost of housing and the lack of rental housing being produced in Honolulu. Additional housing options are needed for a range of income levels, including: temporary shelters and permanent housing solutions for homeless individuals and families; family and senior low-income housing; moderate-income housing; and market-rate rental housing.



There is limited subsidized affordable housing (top) within the ½-mile area, but much of the housing is still relatively affordable due to the aging housing stock and crowded conditions (middle, bottom).

Supporting the non-profit providers described above and continuing to collocate affordable housing and social services can make strides in improving people's health and general welfare. The types of uses appropriate for TOD, such as housing, inexpensive eateries, and basic services such as pharmacies and grocery stores, as well as the availability of jobs, can support the needs and desires of all residents, regardless of income. Moreover, affordable housing within walking distance of transit provides access to high-quality, low-cost transportation and job opportunities throughout the rail corridor.

The design and maintenance of affordable housing and homeless and other services are important for instilling pride in tenants and users. For example, the men's and women's homeless service centers (which include shelter programs) that the Institute for Human Services operates in Iwilei provide an oasis-like presence in industrial areas with edible garden landscaping and urban agriculture training programs doing double duty as workforce development and transformative urban landscapes.

5.2 Infrastructure

This section provides an overview of the wastewater, water supply, and drainage implications of TOD in the Kalihi ½-mile planning area.

Wastewater

The City and County of Honolulu Department of Environmental Services provides sewer service in the Kalihi corridor. Wastewater treatment and transmission capacity is constrained in certain areas throughout the city and a potential hindrance to development since property owners and developers—particularly the first applicants in a constrained area—may need to make costly improvements (e.g., to trunk lines and pumps) to satisfy projected capacity.

Corridor Analysis

Estimates of existing and potential future wastewater generation as a result of implementation of the TOD Plan are shown in Table 5-2. Although the TOD Plan does not exceed projections already anticipated under current zoning, there are some areas where the proposed growth might not be accommodated under existing conditions given constraints and capacity limits on the current system. Existing sewer infrastructure is in need of upgrades to the collection, as well as transmission, systems to support TOD and other development.

To ameliorate current deficiencies, the Department of Environmental Services (ENV) is undertaking a number of actions. It is updating its Sewer I/I Assessment and the InfoWorks flow model to provide a more current evaluation of existing conditions, projected needs, and necessary improvements. Ongoing Capital Improvement Program (CIP) projects are being done in order to comply with the U.S. Department of Environmental Protection's mandated Consent Decree, which will also provide TOD capacity. Finally, ENV is also working to implement its Sand Island Wastewater Treatment Plan (WWTP) Facilities Plan; this facility serves all of urban Honolulu, and upgrades are crucial in order for long-term TOD to move forward.

Station-Level Analysis

The projected needs for new development in the corridor are described by station below and shown in Table 5-2. All sewage generated will be treated at the Sand Island WWTP.

- The Middle Street station area has existing sewer infrastructure that connects to a 54-inch interceptor that ultimately connects to the Hart Street Pump Station. The projected increase for the Middle Street station area is minor, bordering on insignificant. Net increase in average daily wastewater generation is estimated to be 0.03 MGD. The increased population will generate wastewater flows of approximately 95 equivalent single-family residences (ESDU) and generate \$0.6 million in Wastewater System Facility Charges (2013/14 rate) for wastewater system expansion through the Plan's buildout.
- The Kalihi station area has existing sewer infrastructure that connects to the Hart Street Pump station. The Kalihi station area net increase in average daily wastewater generation is projected to be 0.24 MGD. The increased population will generate wastewater flows approximately equal to 750 ESDU and generate \$4.7 million in Wastewater System Facility Charges as the area approaches buildout over a 20-year period.
- The Kapalama Station area has existing sewer infrastructure that connects to the Hart Street Pump Station. The Kapalama station area net increase in average daily wastewater generation is projected to be the largest of all three stations, at 1.2 MGD. The increased population will generate wastewater flows approximately equal to 3,730 ESDU and generate \$23.3 million in Wastewater System Facility Charges.

Implementation

Updated analysis and physical upgrade efforts are underway to the Sand Island WWTP and Collection System to guide implementation of sewer-related improvements.

At the time TOD projects start moving forward with the entitlement process, one of three developer conditions will exist (based on existing funding rules/mechanisms):

1. Adequate Sewer Condition;
2. Inadequate Sewer Condition with City-Initiated Project with Budget and Schedule: The TOD project would have to schedule Certificates of Occupancy to coincide with the completion of the relief sewer project(s) affecting the TOD project; or

3. Inadequate Sewer Condition with no Budgeted Funding or Schedule: The TOD project would have to commit to replacing the inadequate sewers prior to the issuance of any Certificate of Occupancy. The TOD project would be able to get reimbursement for sewer improvement work up to the level matching the project's Wastewater Facility Charge. Subsequent TOD projects (or other projects) would get the benefit of the improvement and not have to share in the sewer upgrade costs.

Lastly, when constructing street, sidewalk and other surface improvements, the designer/contractor should be aware of the City's underground sewer facilities and ensure clearances are met.

| STATION AREA | WASTEWATER GENERATION MGD¹ (COMMERCIAL/ INDUSTRIAL) | WASTEWATER GENERATION² (DWELLING UNITS) | TOTAL WASTEWATER GENERATION (MGD) |
|-----------------------------|---|---|--|
| Middle Street | | | |
| Existing Uses | 0.09 | 0.02 | 0.11 |
| Future with TOD Plan | 0.11 | 0.03 | 0.14 |
| <i>Net Increase</i> | | | 0.03 |
| Kalihi | | | |
| Existing Uses | 0.23 | 0.43 | 0.65 |
| Future with TOD Plan | 0.27 | 0.62 | 0.89 |
| <i>Net Increase</i> | | | 0.24 |
| Kapalama | | | |
| Existing Uses | 0.50 | 0.38 | 0.88 |
| Future with TOD Plan | 0.57 | 1.52 | 2.09 |
| <i>Net Increase</i> | | | 1.21 |
| TOTAL | | | |
| Existing Uses | 0.82 | 0.82 | 1.64 |
| Future with TOD Plan | 0.95 | 2.17 | 3.12 |
| <i>Net Increase</i> | | | 1.48 |

1. Based on 1 person per 150 Sq. Ft. and 25 gpcd (gallons per capita per day)

2. Based on 2.8 persons per unit and 80 gpcd

Source: Bills Engineering, 2012.

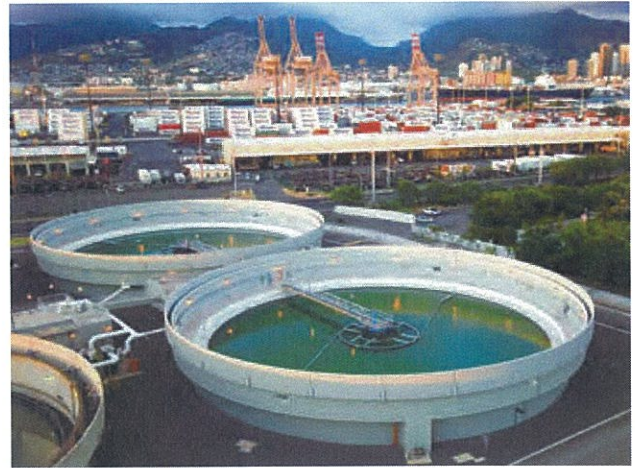
Water Supply

The Board of Water Supply (BWS) provides water service to the Kalihi ½-mile area. The water system contains three components: source, storage and transmission. Water conservation measures, increased water rates, and leak repairs have resulted in a decrease in water demand and improved efficiency over the last 20 years despite an increase in population. Although additional water supply and storage opportunities may be needed to accommodate future growth (resulting from the TOD Plan, as well as other development and population growth outside Kalihi), it is possible that additional supply may not be needed if present conservation and reduced consumption trends continue. Thus, water availability is not seen as a constraint to buildout of the TOD Plan.

Corridor Analysis

The commercial and residential development projections for the TOD Plan fall below the maximum floor area ratios (FAR) allowed by the current zoning for the areas, so TOD will not produce population growth beyond that previously used for regional water utility master planning purposes. Estimates of existing water demands, proposed water demands, and net increases are shown in Table 5-3 within ½-mile of the three Kalihi stations.

The predominant existing land uses and proposed TOD land uses for all three station areas require a fire flow of 2,000 gallons per minute (gpm). The station areas currently contain pipe sizes (mainly 12-inch) that are capable of accommodating this fire-flow requirement. Therefore, it is anticipated that the backbone transmission system is generally adequate to support the projected development. Existing streets within the ½-mile area, in general, have water lines with adequate sizes. It is anticipated that additional source and storage will be provided by existing BWS wells and reservoirs.



Improvements to infrastructure systems must be made in tandem with new development. While some improvements must be coordinated at the regional level, others—such as stormwater management—may be undertaken at the project level. The bioswale pictured (bottom) is located in Portland, OR.

Station-Level Analysis

One of the infrastructure implications of any new development is that additional source and storage components must be provided. The Kapalama station area has the largest projected increase in water usage for the three station areas. The additional source requirement is estimated to be 2.1 MGD and must match the maximum day flow (average daily flow x 1.5) of 3.1 MGD. The Kalihi station area has a very modest projected increase: the additional source requirement is estimated to be 0.37 MGD and must match the maximum day flow of 0.56 MGD. The Middle Street station has a very modest to insignificant projected increase: additional source requirement is estimated to be 0.03 MGD and must match the maximum day flow of 0.05 MGD.

The BWS assesses Water System Facility Charges (WSFC) for all new development requiring water service. The charges are assessed to allow the Board to develop new source, storage and transmission elements

to serve new development. The increased water usage converted to equivalent multi-family dwelling units will generate approximately \$28.5 million in WSFC for replenishment of the BWS water system at Kapalama station, \$5 million at the Kalihi station, and \$0.4 million at the Middle Street station as the area approaches buildout. The Board would generally replenish source and storage components and apply the revenues to those components. TOD projects would be responsible for localized distribution system upgrades and additions (8-inch and 12-inch lines), if required.

Implementation

BWS source, storage and major off-site regional transmission requirements for TOD projects will be paid for by individual projects by means of payment of the applicable portion of the Board's Water Service Facility Charges. The Board will in turn use fees to upgrade its facilities on a regional basis.

TABLE 5-3: WATER DEMAND RESULTING FROM TOD PLAN BUILDOUT

| STATION | WATER REQUIREMENT MGD ¹ (COMMERCIAL/INDUSTRIAL) | WATER REQUIREMENT ² (DWELLING UNITS) | TOTAL WATER ³ REQUIREMENT (MGD) |
|----------------------|---|--|---|
| Middle Street | | | |
| Existing Uses | 0.05 | 0.03 | 0.08 |
| Future with TOD Plan | 0.07 | 0.05 | 0.11 |
| Net Increase | | | 0.03 |
| Kalihi | | | |
| Existing Uses | 0.14 | 0.76 | 0.90 |
| Future with TOD Plan | 0.16 | 1.10 | 1.27 |
| Net Increase | | | 0.37 |
| Kapalama | | | |
| Existing Uses | 0.30 | 0.68 | 0.98 |
| Future with TOD Plan | 0.34 | 2.72 | 3.06 |
| Net Increase | | | 2.08 |
| TOTAL | | | |
| Existing Uses | 0.49 | 1.47 | 1.96 |
| Future with TOD Plan | 0.57 | 3.87 | 4.44 |
| Net Increase | | | 2.48 |

1. Based on 100 gallons per 1,000 Sq. Ft.

2. Based on 400 gallons per Dwelling Unit. This assumption represents a conservative estimate that may overstate the amount of water consumption for the TOD areas in the absence of detailed projections of housing types.

3. Total numbers may not sum precisely due to rounding.

Source: Bills Engineering, 2012.

Individual TOD projects with new roadway and water system infrastructure will be required to submit a Water Master Plan (WMP). Projects will also be required to include, as a part of project construction, localized water distribution and transmission system upgrades, as determined by BWS, when individual TOD projects are identified. These distribution system and transmission system upgrades will be primarily aimed at increasing pipe sizes serving the individual projects with connection(s) to the existing BWS system to provide the required fire flow.

The BWS does not anticipate undertaking any BWS-sponsored pipe system improvement projects at the “local” level to upgrade fire protection in advance of projects coming on-line since the backbone transmission systems in the area appear adequate.

Drainage

The City and County of Honolulu Department of Planning and Permitting Civil Engineering Branch is responsible for reviewing plans for compliance with the City’s drainage rules and standards. The “Rules Relating to Storm Drainage Standards” (January 2000, as amended), which articulate these requirements, have two components:

1. Drainage system sizing for proper conveyance of stormwater: This includes hydrologic and hydraulic studies to ensure that drainage systems are adequate to accommodate storms with 10-year, 50-year, and 100-year recurrence intervals.
2. Stormwater quality related to the Federal Clean Water Act and the City’s MS4 National Pollutant Discharge Elimination System (NPDES) Permit: In general, applicable development and redevelopment projects must address stormwater quality through the use of low impact development (LID) site design strategies, source control of best management practices (BMPs), post-construction BMPs, LID treatment control BMPs, and other post-construction treatment control BMPs. Applicable development and redevelopment projects

include ones that disturb at least one acre of land (and are not required to obtain a separate industrial NPDES permit from the State Department of Health), as well as certain projects (retail gasoline outlets, automotive repair shops, restaurants, and parking lots) with at least 10,000 square feet of total impervious area.

Corridor Analysis

With respect to the hydraulic capacity analysis section of the rules, the Kalihi corridor should not be significantly affected. For all practical purposes the three stations are in almost completely urbanized settings dominated by hard surfaces, and existing drainage systems are already in place to convey stormwater. TOD redevelopment is actually an opportunity to soften the amount of hardscape. This, in turn, would allow a small amount of stormwater runoff to infiltrate into landscape planter areas and reduce the sheet flow in the City drainage systems.

As described in Chapter 2: Land Use, in relation to potential constraints to development, there is flooding potential in much of the Middle Street station area. There is also street flooding during periods of heavy rainfall around the Kalihi station. Therefore, drainage is particularly important for these station areas.

Implementation

In June of 2013, the City and County of Honolulu implemented rule changes that emphasize “Low Impact Development” (LID)-based stormwater drainage regulations and standards, including post-construction BMPs.

Individual TOD projects will likely require the submittal of a drainage report. Each project shall comply with the City and County’s prevailing stormwater quality requirements and the adopted LID requirements. Localized improvements borne at the expense of the developer should be anticipated within all Kalihi areas.

5.3 Goals and Policies

GOALS

Public Facilities and Services

POLICE AND FIRE FACILITIES

- PF-G1:** Provide public facilities—including police and fire services—commensurate with the needs of existing and future community members.

EDUCATION AND LIBRARY SERVICES

- PF-G2:** Support efforts to provide high-quality public and private educational opportunities for all segments of the community.

AFFORDABLE HOUSING AND SOCIAL SERVICES

- PF-G3:** Contribute to the achievement of the City's affordable housing development production goals, as expressed by the Consolidated Plan, Mayor's Office of Housing, and other affordable housing planning documents and initiatives.
- PF-G4:** Foster adequate provision of social and health services, such as housing and reintegration services for homeless; youth activities; and senior programs.
- PF-G5:** Support maintenance of existing, and development of new, affordable housing units and associated services for low- and very-low income households.
- PF-G6:** Encourage mixed-income housing and distribute affordable housing throughout the planning area. Mitigate the potential for gentrification and avoid displacing low- and moderate-income residents.

Infrastructure

- PF-G7:** Facilitate the development of infrastructure—including sewer, water, drainage, and high-speed broadband internet systems—that is designed and timed to be consistent with project capacity requirements and development occupancy.
- PF-G8:** Promote conservation in order to reduce the load on existing and planned infrastructure capacity and to preserve environmental resources.

POLICIES

Public Facilities and Services

POLICE AND FIRE FACILITIES

- PF-P1:** Coordinate with the Police and Fire Departments to maintain sufficient personnel and facilities to ensure acceptable levels of service.

EDUCATION AND LIBRARY SERVICES

- PF-P2:** Coordinate with the Department of Education to monitor housing, population, and enrollment trends as development projects emerge; determine potential need for school impact-fee district; and evaluate effects of projected school enrollment on future school facility needs.

- PF-P3:** Promote the health, safety, and welfare of youth in Kalihi by expanding recreational and other youth-oriented services.

- Work in partnership with community organizations and institutions such as the local K-12 schools and Honolulu Community College to provide counseling, career planning, job training/placement, healthful activities, and other beneficial services for teens and young adults.
- Support initiatives where teens and young adults can contribute to the community through internships and civic activities.
- Encourage new retailers to participate in job training programs.

AFFORDABLE HOUSING AND SOCIAL SERVICES

- PF-P4:** Within ¼-mile of the stations, invest public affordable housing funds and encourage affordable housing development through implementation and expansion of the City's inclusionary housing rule, incentives for TOD housing, and participation in the Housing Choices Voucher and Section 8 programs.

- PF-P5:** Work with the Department of Transportation and Department of Community Services to ensure the safety of homeless persons and prevent them from sleeping along the Radford to Middle Street bike path under the H-1 viaduct. The path should be adequately lit and signed.

Homeless persons should be encouraged into safer shelters.

- PF-P6:** Encourage housing and social service providers to serve seniors with recreational opportunities and programs that encourage their health, safety, and welfare.
- PF-P7:** Strengthen and pursue relationships with community stakeholders groups, including public agencies, community organizations, businesses, and property owners. Connect with established business organizations and support new organizations for communities that lack community-based nonprofits.
- PF-P8:** Support development of permanent affordable housing services, especially for homeless individuals and families:
- Encourage the provision of appropriate supportive services for tenants at all functional levels.
 - Encourage the creation of single-room occupancy (SRO) or efficiency units that can meet the housing needs of individuals, seniors, immigrants, formerly homeless, students, and single parents with a child.
 - Review development standards, which currently permit group living facilities as a conditionally permitted use in most residential and mixed-use districts, to identify obstacles to the creation of SROs or efficiency units, and consider whether such obstacles should be removed or altered.
 - In order to meet the needs of extremely low-income individuals and households, identify sites and long-term funding to support the development and ongoing provision of services for new affordable housing.
- PF-P9:** Maintain and enhance prompt access to social services for residents and transient populations. Coordinate with the Department of Community Services to understand existing and future social service needs and opportunities, both citywide and in the Kalihi planning area.

Infrastructure

- PF-P10:** Prepare a comprehensive infrastructure master plan for the Kapalama station area. This plan should include details on water, wastewater, and drainage systems layout, as well as more precise alignment of new streets, and a financing plan that ensures that improvements will be realized and will not become a constraint to development.
- PF-P11:** The City should partner with the private sector to provide high-speed broadband internet service in the station areas to facilitate high-tech economic development.
- PF-P12:** Require development and redevelopment projects to comply with best practices for low impact development-based stormwater management.

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6 IMPLEMENTATION

This chapter summarizes major improvements from the preceding chapters and describes key actions for their implementation, including the general responsibilities of various public agencies, phasing and timing of improvements, next steps for developing detailed infrastructure and public facilities plans, and financing mechanisms to enable development consistent with the TOD Plan.

Section 6.1 summarizes key policies/improvements and responsibilities. A primary public sector implementation tool for the land use proposals in the plan will

be administration of the TOD Special District in the Land Use Ordinance; recommendations for the Special District are discussed in Section 6.2. Section 6.3 describes appropriate phasing of improvements and potential catalyst development projects to ensure that adequate public facilities are in place to support rail access and TOD. Lastly, financing strategies are described in Section 6.4. Public improvements may be prioritized through the Capital Improvement Program, subdivision permit requirements, impact fees, and the collective initiative of project applicants where district-level improvements are necessary.



The opening of the new Middle Street Transit Center bus facility marks a step toward implementation of the Kalihi Neighborhood TOD Plan by enabling convenient connection between bus and rail.

RESPONSIBLE AGENCIES

Implementing the Kalihi Neighborhood TOD Plan will involve various City departments and decision-makers, in addition to private developers and nonprofit service providers. The City also will need to consult with State and federal agencies about proposals that affect their respective areas of jurisdiction. The principal responsibilities for plan implementation are briefly summarized below. To assist with coordination, City agency heads meet weekly to discuss the implementation of TOD.

City Council

The Honolulu City Council is the lawmaking body of the City and County of Honolulu. It sets citywide policies relating to government programs and services, including parks and recreation, zoning, affordable and special-needs housing, and public transportation. The Council also initiates new municipal programs or improvements to existing programs and services, adopts measures to balance the budget including setting the annual real property tax rate, and sets development fees.

Planning Commission

The Planning Commission is a nine-member board responsible for reviewing changes to the General Plan, development plans, and the Land Use Ordinance. The Planning Commission has the charge to recommend approval or approval with changes, and advise the City Council on many critical actions related to the TOD Plan, including implementation through the Land Use Ordinance.

Kalihi-Palama Neighborhood Board

The City's Neighborhood Board system is the mechanism through which citizens and communities communicate their needs and desires. Activities include study and review of capital improvement projects and major zoning concerns. The boundaries of the Kalihi-Palama

Neighborhood Board extend through the majority of the ½-mile area from Middle Street to River Street in Chinatown, and from North School Street to Honolulu Harbor, including Sand Island.

Department of Planning & Permitting

The Department of Planning and Permitting (DPP) is responsible for processing applications for land use approvals, zoning and land use permits, construction and building permits, and engineering and subdivision permits (including for new streets), as well as developing long-term goals and policies that address the physical, social, economic, and environmental concerns of Honolulu's communities. DPP will have primary responsibility for implementing the vision of the TOD Plan.

Department of Transportation Services

The Department of Transportation Services (DTS) consists of several divisions. The Traffic Engineering Division provides for the safe and efficient operation of streets and intersections. The Transportation Planning Division performs citywide transportation planning required by the federal transportation-funding program and determines the City's transportation projects eligible for federal highway and transit funds.

The Public Transit Division oversees the contractor operating the City's public transit system and will be responsible for coordination with the Honolulu Authority for Rapid Transportation (HART). The Department also constructs and operates bus transit centers and installs and maintains bus stops and shelters. DTS will be involved with the redesign of existing streets, crossings, and streetscapes.

Department of Environmental Services

The Department of Environmental Services (ENV) manages the City's wastewater, stormwater and solid waste disposal operations and facilities. Given the wastewater capacity constraints anticipated, planning by and coor-

dination with ENV will be essential to ensure adequate sewer capacity to enable TOD. To that end, ENV is currently updating facility plans and implementing near-term system upgrades.

Department of Design and Construction

The Department of Design and Construction (DDC) is the central agency responsible for the planning, design, and construction management of much of the City's Capital Improvement Program. Working in conjunction with other City departments, DDC administers the planning, development, and implementation of capital improvements for most City agencies. These include development of infrastructure and facilities for many of the subjects addressed by the TOD Plan: wastewater, roads and drainage, parks, fire, police, and emergency service facilities. Additionally, DDC performs land acquisition in support of City agencies.

Department of Parks and Recreation

The Department of Parks and Recreation manages, maintains, and operates all parks and recreational facilities of the City; develops and implements programs for cultural and recreational activities; and beautifies the public streets of the city. Although acquisition of new publicly-owned parkland may occur through the DDC, the Department of Park and Recreation would be responsible for operations and programming.

Department of Community Services

The Department of Community Services (DCS) implements programs to assist seniors, low-income households, and homeless persons. DCS provides rental assistance to eligible low-income families and works in partnership with the private for-profit and nonprofit sectors and other government agencies to address affordable and special needs housing, as well as shel-

ter and supportive services for people in need.

The DCS's WorkHawaii Division, which provides direct services to both businesses and job seekers, is overseen by the Oahu Workforce Investment Board through a partnership with the Mayor. In addition, the Mayor's Office of Housing addresses homelessness, through plans and programs relating to affordable housing, senior housing and special needs housing.

Honolulu Authority for Rapid Transportation (HART)

In November 2010, Honolulu voters approved a charter amendment to create a semi-autonomous public transit authority to oversee the planning, construction and operation of the rail system, including the design of the rail stations. HART has a 10-member volunteer Board of Directors that includes three members appointed by the Mayor, three members selected by the Honolulu City Council, the City and State transportation directors, the DPP Director, and a community member.

Board of Water Supply

A semi-autonomous agency, the Board of Water Supply (BWS) manages Oahu's municipal water resources and distribution system, including demand and supply projections for future customers. BWS also provides education and programs in conservation, water recycling, and other best practices.

Department of Facility Maintenance

The Honolulu Department of Facility Maintenance is in charge of maintaining city roads, traffic signs, streetlights, bridges and streams, buildings, and facilities for parks. The department is made up of three divisions: the Division of Road Maintenance, the Public Building and Electrical Maintenance Division, and the Division of Automotive Equipment Service.

6.1 Summary of Improvements and Responsibilities

Table 6-1 summarizes the programs and improvements described in the preceding chapters. The matrix identifies a course of action, assigns agencies responsible for implementation, and determines a general timeframe for development and completion.

| TABLE 6-1: IMPLEMENTATION ACTIONS AND RESPONSIBILITIES | | | |
|---|--|--|---|
| IMPROVEMENT/ REGULATION | ACTION | RESPONSIBLE AGENCIES | TIMEFRAME |
| LAND USE PLANNING AND ZONING (CHAPTER 2: LAND USE) | | | |
| Codify TOD Plan Land Use & Development Policies | Amend the Land Use Ordinance and Zoning Map to bring zoning into conformance with the land use designations and building density and height maximums in the Plan. Prepare and adopt the TOD Special District in the Land Use Ordinance to regulate: land uses; active frontage requirements; maximum density and heights; and other development standards. | <ul style="list-style-type: none"> • DPP • City Council | Within 1 year of adoption of the TOD Plan |
| Communicate with Business and Property Owners to Facilitate Redevelopment and “Catalyst” Projects | Communicate with small and large property owners about redevelopment and zoning changes: <ul style="list-style-type: none"> • Encourage Honolulu Community College and Kamehameha Schools to support the community vision of the Kalihi TOD Plan; • Communicate with the Department of Public Safety about the future of Oahu Community Correctional Center and the feasibility of a land swap or site redesign. | <ul style="list-style-type: none"> • DPP | Ongoing |
| Amend Primary Urban Center Development Plan | Amend the Primary Urban Center Development Plan to bring it into conformance with the community vision and land use designations expressed in the Plan. | <ul style="list-style-type: none"> • DPP | At next scheduled PUCDP update |
| PARKS AND RECREATION (CHAPTER 2: LAND USE AND CHAPTER 4: URBAN DESIGN) | | | |
| Identify Park Locations and Funding | Identify park locations and funding mechanisms as part of a Kalihi Infrastructure Facilities and Financing Plan. Open space types include: <ul style="list-style-type: none"> • Community parks (at least five acres each) in Kapalama and Iwilei station areas; • Beach park on the Middle Street station area waterfront; • Urban parks and plazas at the stations and associated with new development; • Green Streets connecting existing and future open spaces; and • Promenades designed with community input and in coordination with adjacent property owners, including Honolulu Community College and Kamehameha Schools. In addition to identifying park locations, the infrastructure plan should include: <ul style="list-style-type: none"> • Mechanisms for acquisition or dedication (e.g., through incentives, land swaps, and easements); • A needs assessment; • Capital and maintenance costs and proposed revenues; • Revision of park impact fees to provide a nexus with the needs assessment; and • Modification of the exiting open space bonus program, as appropriate. | <ul style="list-style-type: none"> • DPR • DPP • DDC • DTS | Develop plan within 3 years of adoption of the TOD Plan |
| STREETS AND CIRCULATION (CHAPTER 3: MOBILITY) | | | |
| Create a Cohesive Street Network Plan | Identify locations for new streets, as illustrated conceptually in the Circulation Diagram (Figure 3-4), and a financing strategy as part of a Kalihi Infrastructure Facilities and Financing Plan to implement: <ul style="list-style-type: none"> • New street connections and pedestrian bridges in Kapalama and Middle Street station areas, consistent with the intention and character of the street network defined in the Circulation Diagram. • Block lengths no longer than 350 feet that should generally follow parcel boundaries so that land and the cost of new streets can be shared among property owners. | <ul style="list-style-type: none"> • DPP • DTS • DDC | Develop plan within 3 years of adoption of the TOD Plan |

| IMPROVEMENT/ REGULATION | ACTION | RESPONSIBLE AGENCIES | TIMEFRAME |
|--|--|---|---|
| Improve Sidewalks, Crossings, and Streets where Missing or Inadequate | <p>Develop a streetscape and sidewalk deficiency program as part of the Infrastructure Facilities and Financing Plan to design and implement improvements in the Circulation Diagram (Figure 3-4), including:</p> <ul style="list-style-type: none"> • Sidewalk improvements to increase safety and accessibility to rail transit along Dillingham Boulevard and key transit connection streets; • Crossing improvements to enhance safety along Kalihi and Middle Streets; and • Living Street Zones designated to better accommodate all modes of travel efficiently around the Kalihi station. | <ul style="list-style-type: none"> • DTS • DDC | Develop plan within 3 years of adoption of the TOD Plan. Complete construction to coincide with the beginning of rail operations. |
| Amend Oahu Bike Plan and Construct Bicycle Network | Update Oahu Bike Plan to reflect additional bicycle facilities (e.g., on Kalani and Kaumuali Streets) as shown in Figure 3-5: Bicycle Network. | <ul style="list-style-type: none"> • DTS | Plan ongoing. Complete construction to coincide with the beginning of rail operations. |
| Manage Parking Supply | <p>Develop a coordinated strategy to manage on- and off-street parking efficiently:</p> <ul style="list-style-type: none"> • Educate property owners around the Kalihi station about the ability to form a benefit district to finance parking-related activities, including acquisition of land for parking facilities, construction of parking garages, and funding of operating costs. • Consider establishing a residential/employee permit parking zone to prioritize curb space for local residents and/or businesses around the Kalihi station area. | <ul style="list-style-type: none"> • DTS | Ongoing |
| AFFORDABLE HOUSING (CHAPTER 5: PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE) | | | |
| Codify Affordable Housing Policies | Prepare and adopt a policy to codify an inclusionary housing requirement. | <ul style="list-style-type: none"> • DPP • DCS • City Council | Within 1 year of adoption of the TOD Plan |
| Identify Funding for Affordable Housing Development | Target public and private financial resources for the preservation and production of affordable housing in the TOD Zone. Utilize the existing HUD reporting requirements to identify sources. | <ul style="list-style-type: none"> • DPP • DCS • Mayor's Office of Housing | Ongoing |
| INFRASTRUCTURE (CHAPTER 5: PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE) | | | |
| Maintain Funding for Water System | Reassess Water System Facility Charges as needed. | <ul style="list-style-type: none"> • BWS | Ongoing |
| Address Wastewater Capacity | Continue to monitor system capacity and implement necessary treatment and collection system upgrades. | <ul style="list-style-type: none"> • ENV • DDC | Ongoing |
| Fund Wastewater Infrastructure Improvements | Define a financing strategy in a Kalihi Infrastructure Facilities and Financing Plan. Reassess Wastewater System Facility Charges as needed. | <ul style="list-style-type: none"> • ENV • DPP | Within 3 years of adoption of the TOD Plan |
| Maintain Best Practices for Drainage | Implement Low Impact Development (LID) strategies and standards. Continue to require drainage reports for individual projects where appropriate. | <ul style="list-style-type: none"> • ENV • DPP, Civil Engineering Branch • Hawaii State Department of Health | Ongoing |

6.2 Zoning and Land Use

The City's zoning and land use regulations will translate plan policies into specific use regulations, development standards, and performance criteria that will govern development on individual properties. The TOD Plan establishes the policy framework, while the Land Use Ordinance (LUO) prescribes standards, rules, and procedures for development. The Zoning Map will provide more detail than the Land Use Diagram (Figure 2-4).

The City must work to remove regulatory barriers and set up incentives to achieve the type of high-quality TOD desired by the community.

Zoning Districts

The land use designations proposed for Kalihi are illustrated and described in Chapter 2: Land Use (see Table 2-3 and Figure 2-4). Following adoption of the TOD Plan, the LUO and Zoning Map will be updated to reflect the land use designations described herein. The land use designations are generally comparable to the City's existing zoning districts, as specified in Table 6-2. However, as described in Chapter 2, building heights, FAR values, and residential densities are regulated independent of the zoning district regulations (unlike in most areas outside of the TOD Zone).

TOD Zone

The following recommendations will be codified in the TOD Special District.

District Boundaries

As described in Chapter 2: Land Use, the TOD Zone establishes the area where TOD Special District regulations apply. The TOD Zone encompasses sites that have the most potential to support transit ridership, take advantage of transit proximity, and redevelop in the next 20 years. Sites within the TOD Zone can generally be accessed from a station on foot in fewer than ten minutes. (Sites outside this boundary may also redevelop as a result of rail, but likely over a longer time frame.)

Applicability

The regulations applicable to the TOD Zone shall be in addition to the underlying (base) zoning district and, if applicable, other special district regulations, and they may supplement and/or modify the underlying regulations. If any regulation pertaining to a TOD Zone conflicts with any underlying zoning district, the regulation applicable to the TOD Zone shall take precedence.

Building Height and Building Intensity

Maximum building intensity and building height limitations are illustrated and described in Chapter 2: Land Use (see Figure 2-6 and 2-7, respectively).

Building intensity and height maximums are independent of land use designations to enable flexibility and intensification closest to the transit stations and tapering down of heights and massing toward the waterfront and away from the station. The tallest heights and highest intensities are anticipated around Kapalama station, while lower heights and intensities are anticipated in the Kalihi station area to ensure compatibility with the existing neighborhood. Proposed building heights that meet the criteria for notification described in CFR Part 77 must be coordinated with the FAA before project approval.

Land Use

The station areas should contain a mix of complementary uses that enables the community vision of "a livable urban community with a range of uses, reflecting the area's central location, rich cultural heritage, and transit access." Complementary land uses are those that offer goods and services at different times of the day and week and provide a balance of employment, residential, and recreational uses in close proximity to one another.

Specific uses that are inconsistent with the vision for transit-oriented development, such as auto-oriented drive-through establishments, should be prohibited in certain areas. Restricting such uses will improve pedestrian safety and comfort by limiting uses that prioritize automobile use and require substantial curb cuts. Industrial and harbor activities that continue should still

be designed to support pedestrian, bicycle, and transit rider mobility and safety.

TOD Special District regulations should specifically address existing nonconforming uses in a way that encourages property investment, upkeep and upgrades. Within the TOD Special District, permitted and prohibited uses in each land use designation illustrated and described in Chapter 2: Land Use (see Table 2-3 and Figure 2-4) are generally proposed to be consistent with the comparable base zoning district, but with a few exceptions, as defined in Table 6-2.

Parking

Appropriate parking regulations are essential in making the most efficient use of land and in meeting broader community planning objectives. Parking requirements are specified for each land use designation in Table 6-2.

In the areas closest to the rail stations, particularly around Kapalama station, high densities and exceptional public transit provide the right conditions for reductions in parking requirements. Moreover, given the small parcel size and small business nature within much of Kalihi, reductions and exemptions should be permitted in the TOD Zone where warranted and consistent with the following recommendations:

- **Expand the use of parking reductions.** Allow for reductions in parking where special conditions exist—such as the nature of the proposed operation, proximity to the rail station, or the characteristics of persons residing, working, or visiting there—or where elements are provided that would reduce parking demand (e.g., transportation demand management measures such as free transit passes and bike sharing). Parking reductions should continue to be provided for mixed-use developments with varying peak parking demands for individual uses.
- **Exempt small retail or office establishments from parking requirements.** Provide an across-the-board exemption from the off-street parking requirement for retail or office businesses under a certain size (e.g., 1,500 square feet of floor area). This will be particularly important to protecting the viability

of small-lot small businesses around the Kalihi station.

- **Establish a framework for in-lieu fees.** Establish a framework and nexus for the payment of a fee in-lieu of providing parking on-site to develop public parking areas.
- **Allow alternative parking configurations that provide for the efficient use of space.** Allow on-street parking spaces on public and private streets to count toward required on-site parking for non-residential uses and residential guest parking. Additionally, allow motorcycle/scooter/other personal non-vehicular transportation parking to substitute for a portion of required automobile parking.
- **Require bicycle parking.** Consistent with the Oahu Bike Plan, bicycle parking (short- and long-term, as appropriate) should be required at popular destinations, including transit hubs, government buildings, community centers, parks, schools, and shopping centers. It is recommended that development in all land use designations provide bicycle parking areas holding the equivalent of ten percent of the required auto parking.
- **Exemption for Redevelopment within the Industrial Mixed Use and Medium Density Residential Land Use Designations.** Where a use with a legal nonconforming parking deficiency located in the Industrial Mixed Use and Medium Density Residential Land Use Designations is replaced with a use and development consistent with all other applicable standards, the non-conforming parking may remain as is. This will help encourage redevelopment and renovation of existing properties in disrepair that could not otherwise meet parking standards.

Yards

Yards in the TOD Zone should contribute to an active, pedestrian-oriented mixed-use environment. Yards should be sensitive to adjoining residential uses, while also supportive of active ground floor uses. As described below, minimum yard standards allow for public and common open space, while maximum yard standards ensure that visibility and accessibility of active uses are prioritized.

TABLE 6-2: ZONING, LAND USE & PARKING REQUIREMENTS

| LAND USE DESIGNATION | COMPARABLE ZONING DISTRICT(S) | EXCEPTIONS TO PERMITTED USES (FROM COMPARABLE ZONING DISTRICT) | PARKING REQUIREMENTS |
|----------------------------|---|--|---|
| Medium Density Residential | <ul style="list-style-type: none"> Medium Density Apartment Mixed Use (AMX-2) where ground-floor commercial uses are permitted or required—see Figure 2-5 | None | <ul style="list-style-type: none"> Dwellings, multi-family – 0-1 per dwelling unit, depending on size All other uses – consistent with existing regulations for uses permitted in base zoning district (AMX-2) |
| High Density Residential | <ul style="list-style-type: none"> High Density Apartment Mixed Use (AMX-3) where ground-floor commercial uses are permitted or required—see Figure 2-5 | Duplexes and detached dwellings are not allowed. | <ul style="list-style-type: none"> Commercial parking lots and garages should be located at least 300 feet from a station. Dwellings, multi-family – 0-1 per dwelling unit, depending on size All other uses – consistent with existing regulations for uses permitted in base zoning district (AMX-3) |
| Urban Mixed Use-Medium | <ul style="list-style-type: none"> Community Business Mixed Use (BMX-3) | Duplexes, detached dwellings, automobile service stations, and car washes are not allowed. | <ul style="list-style-type: none"> All uses – consistent with existing regulations for uses permitted in base zoning district (BMX-4) Commercial parking lots and garages should be located at least 300 feet from a station. |
| Urban Mixed Use-High | <ul style="list-style-type: none"> Community Business Mixed Use (BMX-3). However, Urban Mixed Use High typically corresponds to more building intensity and higher building height compared to Urban Mixed Use-Medium. | Duplexes, detached dwellings, automobile service stations, and car washes are not allowed. | <ul style="list-style-type: none"> All uses – consistent with existing regulations for uses permitted in base zoning district (BMX-4) Commercial parking lots and garages should be located at least 300 feet from a station. |
| Industrial Mixed Use | <ul style="list-style-type: none"> Industrial Mixed Use (IMX-1) | None | <ul style="list-style-type: none"> Commerce & Business uses – consistent with existing regulations for uses permitted in base zoning district (BMX-4) Hotels – 1 space per 4 units All other uses – consistent with existing regulations for uses permitted in base zoning district (IMX-1) |
| Public/Quasi-Public | <ul style="list-style-type: none"> Generally permitted within any of the City's zoning districts. | None | <ul style="list-style-type: none"> All uses – consistent with existing regulations for uses permitted in base zoning district |
| Public Park | <ul style="list-style-type: none"> General Preservation (P-2) | None | <ul style="list-style-type: none"> All uses – consistent with existing regulations for uses permitted in base zoning district (P-2) |

- **Establish minimum yard requirements.** Where sidewalks are narrow and high pedestrian volumes are anticipated, require minimum front yards so that the yard can become an effective extension of the public sidewalk area.
- **Establish maximum street frontage setback requirements.** To encourage the development of a street wall, front yards should be no greater than 200 percent of the required minimum, in areas where active ground floor frontage is required.
- **Establish requirements for front yards of active uses to include pedestrian amenities.** Retail, restaurants, and other uses along designated active streets should offer pedestrian amenities such as outdoor dining, pedestrian seating areas, paved pathways, entry walks, and landscaping.
- **Encourage parking in the side or rear.** Buildings should be placed as close as possible to the street, or a public plaza or open space provided along the street, in compliance with the required setback, with parking located either in a garage, behind a building, or on the interior or rear of the site.
- **Incorporate buffers for yards adjacent to residential uses.** When a side or rear yard adjoins a residential district, landscaping buffers five feet in width should be incorporated into the required minimum yards.

Publicly Accessible Open Space

The Kalihi TOD Plan proposes a connected network of open space throughout the planning area. This network, diagrammed in Figure 4-4: Open Space and Public Realm, includes parks, plazas, and green connections.

In addition, privately-owned publicly accessible open spaces within planned developments are an integral part of the open space network. All publicly accessible open spaces should be designed to be visible from the public right-of-way, accessible, and safe. Standards for open space and landscaping within the TOD Zone should be consistent with the recommendations below:

- **Establish minimum open space requirements.** Instead of the parks and playgrounds requirements pursuant to Section 22-7.5 of the Subdivision

Ordinance, new residential, office, or mixed-use development should be required to dedicate a percentage of the developable area to publicly-accessible open space.

- **Exemptions.** Sites less than 20,000 square feet in area should be exempt from the open space requirement.
- **Allow for open space requirements to be met through on- or off-site dedication and/or payment of in-lieu fees.** The required open space for any residential, mixed-use, or office development may be met with dedication or developer contribution to the City's Park Dedication Fund. If land is dedicated, it should be in a visible location accessible to the broader community. If an in-lieu fee is paid, the contribution should be applied to the design and construction of a community park within the same station area or a station area adjacent to that of the proposed development.
- **Allow a Range of Open Space Types to Meet Needs Need and Requirement.** Open space may include all public, semi-public, or common open space areas with a minimum dimension of eight feet on any side, whether at the ground, podium, or roof level. Open space could also be provided off-site, in the form of pocket parks, trails, public plazas, or other configuration consistent with City goals and policies. For example, development sites along Kapalama Canal could contribute to the waterfront promenade.
- **Require developments to contribute to and/or enhance the "Green Street" network.** For sites located along a "Green Street," as identified in Figure 4-4, any on-site open space should be located adjacent to the right-of-way. In addition, the open space should include features that complement the Green Street scheme (i.e., signage, pedestrian amenities, additional landscaping).
- **Encourage a balance of active and passive recreational uses.** Taken together, the small parks and large community parks located within a station area should offer an array of recreational uses, including active sports and athletic opportunities, as well as passive areas for relaxation and contemplation. Require programming of open space appropriate to the district's needs.

Architectural Elements

Built form within the TOD Zone is expected to contribute to an active and vibrant pedestrian experience. The architectural elements of all buildings should enhance the pedestrian experience, but pedestrian-oriented design is particularly important in the areas closest to rail transit which will host the highest rates of pedestrian travel. Figure 2-5 illustrates where Pedestrian-Oriented Design is required; the guidelines below should be adhered to in these areas:

- **Require buildings to be oriented to the pedestrian realm.** Building facades should be parallel to the right-of-way and should open directly onto the sidewalk or onto a pedestrian walkway within the front yard.
- **Require articulated entries for residential uses.** Facades of residential uses should incorporate porches, stoops, porticoes, bay windows, and/or other architectural features that provide a sense of entryway and visual interest from the public realm.
- **Encourage articulated building massing and facades.** Encourage developments that provide varied front yard depths within a narrow range; recessed or otherwise articulated entries; a variety of colors, materials and/or textures; varied roof forms; and building fenestration that communicates overall building organization.
- **Require transparency of active uses.** Facades of buildings with active uses should have a high degree of transparency with storefront windows and/or glass doors. Blank walls should be limited to 40 feet within the TOD Zone and 20 feet along an active ground-floor frontage, per Figure 2-5.

Historic Preservation

Preservation and rehabilitation of historic buildings and structures should be promoted within the TOD Zone. Incentives may include streamlined permitting, tax credits or reductions, additional use allowances, transfer of development rights, and the removal of regulatory constraints to preservation.

Affordable Housing

Maintaining and producing affordable housing in the Kalihi corridor is a central component of the community's vision for TOD. The TOD Plan recommends an affordable housing policy as follows for residential or residential mixed-use projects with ten or more units where there is no zone change:

- A percentage of the total number of dwelling units should be sold or rented to low and moderate-income households.
 - Family-friendly housing with higher bedroom counts is encouraged through a weighted calculation. The actual final percentage depends on the mix of unit types—units with two or more bedrooms are given more weight than studio and one-bedroom units and SROs.
 - Units should be affordable to households earning at or below 80 percent of area median income (AMI) and households earning between 80 and 120 percent of AMI.
 - Emphasis should be placed on the production of rental housing units rather than for-sale units.
- In-lieu fees may be paid and banked in an Affordable Housing Fund to satisfy the affordable housing requirement. These funds should be used to develop affordable housing within the Kalihi corridor to the extent feasible.
- Incentives should be provided to offer relief from parking, park dedication and other requirements in order to ensure project feasibility.

Community Benefits Bonus

Entitlement bonuses up to the maximum allowed height or FAR may be granted in exchange for the provision of additional community benefits (public open space, streetscape improvements, affordable housing, etc.) beyond what is required.

6.3 Phasing

The TOD Plan seeks to maintain a high quality of life and adequate public facilities as rail is constructed and new development ensues in the Kalihi corridor. Establishing a clear direction for infrastructure and public facilities planning is essential to ensuring that new development can proceed without constraints and that the timing and costs of improvements are logical and feasible.

The phasing of public improvements and TOD projects will be based on development cost, market factors, available financing, and infrastructure improvements. A potential sequencing of improvements is described below:

1. The TOD Special District zoning will be adopted following adoption of the Kalihi Neighborhood TOD Plan. A Kalihi Infrastructure Facilities and Financing Plan should be prepared to definitively lay out the future street network, identify park locations, and document any necessary utility upgrades. In addition, essential wastewater capacity planning should be completed and improvements prioritized to ensure that development can proceed in subsequent phases. As the rail line is being constructed on Dillingham Boulevard and utilities are placed underground, there could be opportunities to coordinate sidewalk and streetscape improvements.

Some redevelopment projects may initiate in the short term, such as vacant or for-lease sites with limited or no environmental hazards or infrastructure constraints. The master plans underway by Honolulu Community College and Kamehameha Schools could be “catalyst” projects, helping to fund and construct critical public facilities and bring new activities, residents, students, and services to support rail ridership and enhance the Kalihi neighborhood.

In addition, the City should encourage home and business improvements among smaller property owners, mauka and makai of Kalihi station, who may have non-conforming uses or properties in disrepair. This could be achieved through a short-term amnesty program to bring properties up to code without necessitating off-site improvements unrelated to fire and life safety.

2. The first major public construction phase will likely be marked by the construction and opening of the three Kalihi rail stations, anticipated by 2019. In this second phase—which could occur concurrently with the first phase—critical street network improvements should be implemented, consistent with the Kalihi Infrastructure Facilities and Financing Plan.

Priority projects, such as installing crosswalks, lighting, and new street segments will ensure that stations can be safely and conveniently accessed. This will be most important around Kapalama and Middle Street stations which currently lack adequate sidewalks and access routes.

3. In the third phase, as the rail system matures and infrastructure and public amenities have been installed, the next phase of city building will ensue. Once the initial projects are developed and new neighborhoods begin to emerge, other properties and developers will take an interest in redevelopment in Kalihi and Kapalama. Moreover, the possibility of redevelopment or consolidation of Oahu Community Correctional Center and development in the Middle Street area around the transit center could spur a new residential and mixed-use district on the ewa end of the corridor.

6.4 Financing Strategies

There are a variety of mechanisms available to the City for collecting funds and implementing public capital improvements. Selection of the appropriate mechanism depends on the nature of the improvement. For example, development impact fees place the burden on developers (and ultimately the occupant of the home or business being constructed); whereas assessment districts place the financial burden on existing and future property owners; and funding through the Capital Im-

provement Program (CIP) distributes the burden city-wide. The City must determine who benefits most from the improvements in order to determine appropriate funding streams. In some cases, the City will need to contribute land, money, or other resources to make high-quality TOD projects happen

A matrix of potential funding strategies for the major improvements in the Kalihi TOD Plan are highlighted in Table 6-3 and explained in more detail in the following sidebar.

| TABLE 6-3: POTENTIAL FINANCING STRATEGIES FOR MAJOR IMPROVEMENTS AND CAPITAL PROJECTS | | | | | | |
|--|---|---|---------------------------|-----|-------------------------|-----------------------------|
| PROJECT COMPONENTS | IMPACT FEES/OTHER FEES | PUBLIC/PRIVATE PARTNERSHIPS AND DEVELOPER CONTRIBUTIONS ¹ | SPECIAL FUNDING DISTRICTS | CIP | TAX INCREMENT FINANCING | GRANTS & LOANS |
| LAND USE PLANNING AND ZONING (CHAPTER 2: LAND USE) | | | | | | |
| Catalyst Project Development | | ✓ Incentives may include forgiveness of real property tax for a certain number of years (e.g., 5-10 years) | ✓ | | | |
| PARKS AND RECREATION (CHAPTER 2: LAND USE AND CHAPTER 4: URBAN DESIGN) | | | | | | |
| Park Acquisition and Development (including promenades) | ✓ Park Dedication Fund, user fees | ✓ Incentives: density bonus, land swaps | ✓ | ✓ | ✓ | ✓ |
| STREETS AND CIRCULATION (CHAPTER 3: MOBILITY) | | | | | | |
| New Streets | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sidewalks, Crossings, and Streetscape Improvements | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ (e.g., federal grants) |
| Parking Improvements (e.g., Centralized Facilities, Shuttles) | ✓ Parking Permit Fees | ✓ | ✓ | | ✓ | |
| AFFORDABLE HOUSING (CHAPTER 5: PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE) | | | | | | |
| Affordable Housing Development | ✓ Affordable Housing Fund | ✓ | | ✓ | | ✓ (e.g., HUD) |
| INFRASTRUCTURE (CHAPTER 5: PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE) | | | | | | |
| Water System Operations | ✓ Water System Facility Charges | ✓ | ✓ | | ✓ | |
| Wastewater Infrastructure Improvements | ✓ Wastewater System Facility Charges | ✓ | ✓ | | ✓ | |

¹ Includes possible land dedications

CAPITAL IMPROVEMENTS FINANCING STRATEGIES

Capital Improvement Program

The CIP is the discretionary infrastructure funding plan for the City. It includes a list of public works projects that the City intends to design and construct in upcoming years. As a capital program, the CIP represents one-time expenditures, as opposed to ongoing funding for operations and maintenance expenses. The City Council reviews and adjusts the CIP to reflect changes in priority, funding availability and need, and the general economy. DDC has the lead role in carrying out the capital improvements. CIP projects are primarily funded by bond financing.

Impact Fees (like Developer Contributions) and Other Fees

The City collects impact fees on development projects for certain capital improvements. These funds are levied for wastewater services, water, and parks and recreation facilities. Hawaii has enacted impact fee legislation that, by virtue of broad authorizing language, would permit the use of impact fees for transit access and TOD. For example, the City of San Francisco has a transit impact development fee to cover the estimated costs incurred by the transit agency to meet demand for public transit resulting from new development. Revenues may be used for capital costs, route expansions, operations, maintenance, among other needs.

The Ewa Highway Impact Fee Program (ROH Chapter 33A) provides another precedent, establishing an impact fee collected on each building permit for residential or non-residential construction to provide additional funding resources for roadway and traffic improvements only in the Ewa region.

Additional fees could be collected for a variety of services; storm drain and street improvements; police and fire facilities; and general

City facilities. However, it is important that impact fees be appropriately set to mitigate development impacts, while not overburdening project applicants. The City should streamline fees and permit costs on new development within the planning area and consider lowering fees, if appropriate, to provide an incentive for development.

Special Funding Districts

Individuals and businesses can cooperate to create special districts in which they tax themselves or contribute fees in order to fund specific benefits, such as landscaping, infrastructure improvements, and parking facilities.

Assessment Districts

The Revised Ordinances of Honolulu (ROH) (Chapter 14, Article 23 to 29) allow for the establishment of assessment districts for a variety of purposes including: sewer, storm drain, and water system construction; street lighting and sidewalk construction; acquisition of property for pedestrian malls and off-street parking facilities; and parks and other public facilities. The City may issue and sell bonds to provide the funds for such improvements. However, this tool has not been often used in Honolulu; the most recent assessment district was adopted decades ago.

Improvement Districts

The ROH (Chapter 36) also allows for the establishment of improvement districts (often called Business Improvement Districts or BID) to provide for and finance additional maintenance, security or other services required for the enjoyment and protection of the public and the promotion and enhancement of a neighborhood or district. Special improvement district bonds are issued to finance the cost of supplemental improvements or to reimburse

the cost previously paid. Costs could include payment for additional security, landscaping, sanitation services, promotional and advertising activities, marketing for businesses, decorations and lighting for seasonal and holiday purposes. For example, the Waikiki Business Improvement District funds streetscape maintenance and hospitality programs through an assessment on all non-residential properties.

A BID may be established to provide and finance, to the extent permitted by law, supplemental physical improvements located within the city or the district which will promote business activity including construction of lighting, security systems, pedestrian overpasses, sidewalks and pedestrian malls, parking facilities, plazas, and streetscape improvements (e.g., benches, bus stop shelters, kiosks, signage) as well as narrowing/closing existing streets, rehabilitation or removal of structures, and relocation of utilities. Currently, there are two BIDs in the city: Waikiki and Fort Street Mall.

Parking District and In-Lieu Fee

Through the assessment or improvement districts described above, property owners may form a district to finance parking-related activities, including acquisition of land for parking facilities, construction of parking lots and garages, and operating costs, and to issue bonds to fund similar activities. The majority of affected property owners—such as those around the Kalihi station where parking is limited for workers and customers—would have to vote to assess their properties in order to establish such a district.

Another possible approach to funding is imposition of an in-lieu fee, whereby developers pay a fee instead of providing on-site parking, thereby reducing the cost of development and potentially increasing the efficient use of development sites. The City could, in turn, develop a shared parking structure.

Community Facilities Districts

The ROH (Chapter 34) also allow for the establishment of community facilities districts (CFDs) to finance the acquisition, planning, design, construction, installation, improvement, or rehabilitation of any real property or structure. This could include street improvements, (e.g., sidewalks, bikeways, and pedestrian malls); public parking facilities; park, recreation, and open-space facilities; water, wastewater, storm drainage, sewage removal or treatment, solid waste disposal, and recycling or resource recovery systems or facilities; and transit or transportation systems.

A CFD may be initiated by the City Council or by petition signed by the owners of at least 25 percent of the land in the proposed district (unrelated to the value of the property) and is funded through a special tax.

CFDs have been used sparingly in Hawaii; the first one was established to help finance a 1,200-unit workforce housing development, Kamakoa at Waikoloa, on Hawaii Island.

Tax Increment Financing

Tax increment financing offers a financial tool that could allow the City to designate target areas for special investment in order to stimulate development.

Tax increment financing allows the City to issue bonds against the future property tax revenue expected to be generated in order to finance public investment. The City obtains the additional “increment” of property tax growth, which typically increases as the public improvements are put in place and initial investments are made from the public and private sectors. Funds may be used to pay for affordable housing, parks, schools, utility upgrades, and other public facilities. Hawaii has adopted enabling legislation, but the City has not yet utilized this tool.

For example, a recent study in Honolulu projected that a vacant lot that currently pays nearly \$300,000 per year in property taxes would pay \$8 million per year as a high-density TOD project. The \$7.7 difference (or increment) represents the expected property tax gain that the City can bond against and a funding source with which the City can pay off the bond debt.

Public-Private and Joint Partnerships

The City can facilitate public-private partnerships wherein private developers contribute to public improvements in return for assistance with land assembly, financing, and the benefit of transit over time. While the cost and responsibility for construction may be assigned to the property owners, this burden could be shared between multiple properties and/or reimbursed over time. The City should consider the use of tax credits and other financing tools to allow investment in public infrastructure and increase the financial feasibility of TOD, but only to the extent that private development cannot support itself.

Property Tax Incentives

The City can expand the menu of real property tax incentives including property tax deferment, abatement, and tax holidays. It can also adjust the current program that allows limited Real Property Tax Exemptions for production of new affordable housing. This could include a time limit on TOD-related exemptions (and maximum amount available), with exemptions/credits issued on a first-come, first-served basis for qualified projects to signify urgency (as was done with the prior 7-year exemptions in Waikiki).

Development Agreements

Development agreements (regulated in ROH Chapter 33) are a typical way that public-private partnerships are codified. Developers enter into a contract with the City voluntarily, pro-

viding a flexible and case-by-case method to negotiate the project and community benefits. Development agreements are particularly appropriate for phased projects that will be built out over a period of years during which applicable regulations may be subject to change. In this way, these agreements can have the advantage of providing more certainty for developers in the approval process, but the process may be time-consuming for staff and decision-makers and lack transparency for community members.

Developer Contributions

Developer contributions are payments made in addition to normal impact fees as part of the development approval process for specific projects; these most often apply to larger developments with significant associated impacts. Contributions fund infrastructure and improvements such as dedications of right-of-way for streets and utilities, and the provision of open space, parks or landscape improvements beyond minimum project requirements. Where developers provide public parks as part of their developments, they could be exempted from, or given credit against park dedication fees at the discretion of the City.

Grants and Loans

A sampling of federal and state grants and loans that may be appropriate in the Kalihi corridor are described below.

Community Development Block Grant

The Community Development Block Grant (CDBG) program is a long-running U.S. Department of Housing and Urban Development (HUD) initiative to fund local community development activities such as affordable housing, anti-poverty programs, and infrastructure development. Some or all of the City's annual allotment of CDBG funds from the federal government could be capitalized into a Section 108

loan to increase the immediate ability to fund improvements. HUD's Section 108 Loan Guarantee Program provides communities with a source of financing for economic development, housing rehabilitation, public facilities, and large-scale physical development projects.

CDBG funds may be challenging to use for public improvements since the grants are competitive and the City may have competing priorities. The Department of Community Services and Department of Budget and Fiscal Services prepare the request to HUD through the Consolidated Plan process every five years.

HART Funding

The Honolulu Authority for Rapid Transportation will administer, through a Historic Preservation Committee, \$2 million in funds for exterior improvements to historic properties within the rail project's area of potential effects.

Federal Transportation Funding

Federal transportation funds are available through a variety of programs and legislation. The City already takes advantage of federal funds, such as Safe Routes to School infrastructure grants to improve pedestrian safety, the American Recovery and Reinvestment Act of 2009, as well as funding for the rail system itself. To qualify for funding, improvements must be identified in the appropriate transportation documents such as the Oahu MPO Regional

Transportation Plan, the Oahu MPO Transportation Improvement Program and/or the City's Capital Improvement Program.

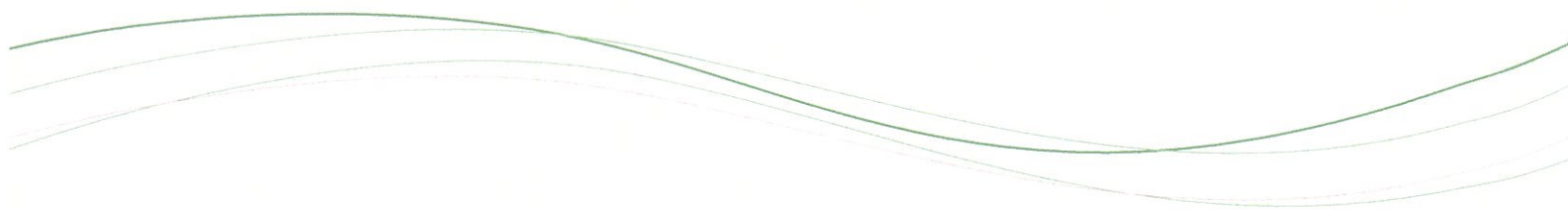
In June 2012, the new federal surface transportation bill was signed into law: "Moving Ahead for Progress in the 21st Century Act" (MAP-21). The 27-month law provides \$105 billion in funding for essential highway and public transportation programs, most of which are in the form of formula-based allocations that direct money automatically to states and metropolitan areas. (Approximately 80 percent of funds are allocated to highways/roads and 20 percent to transit.)

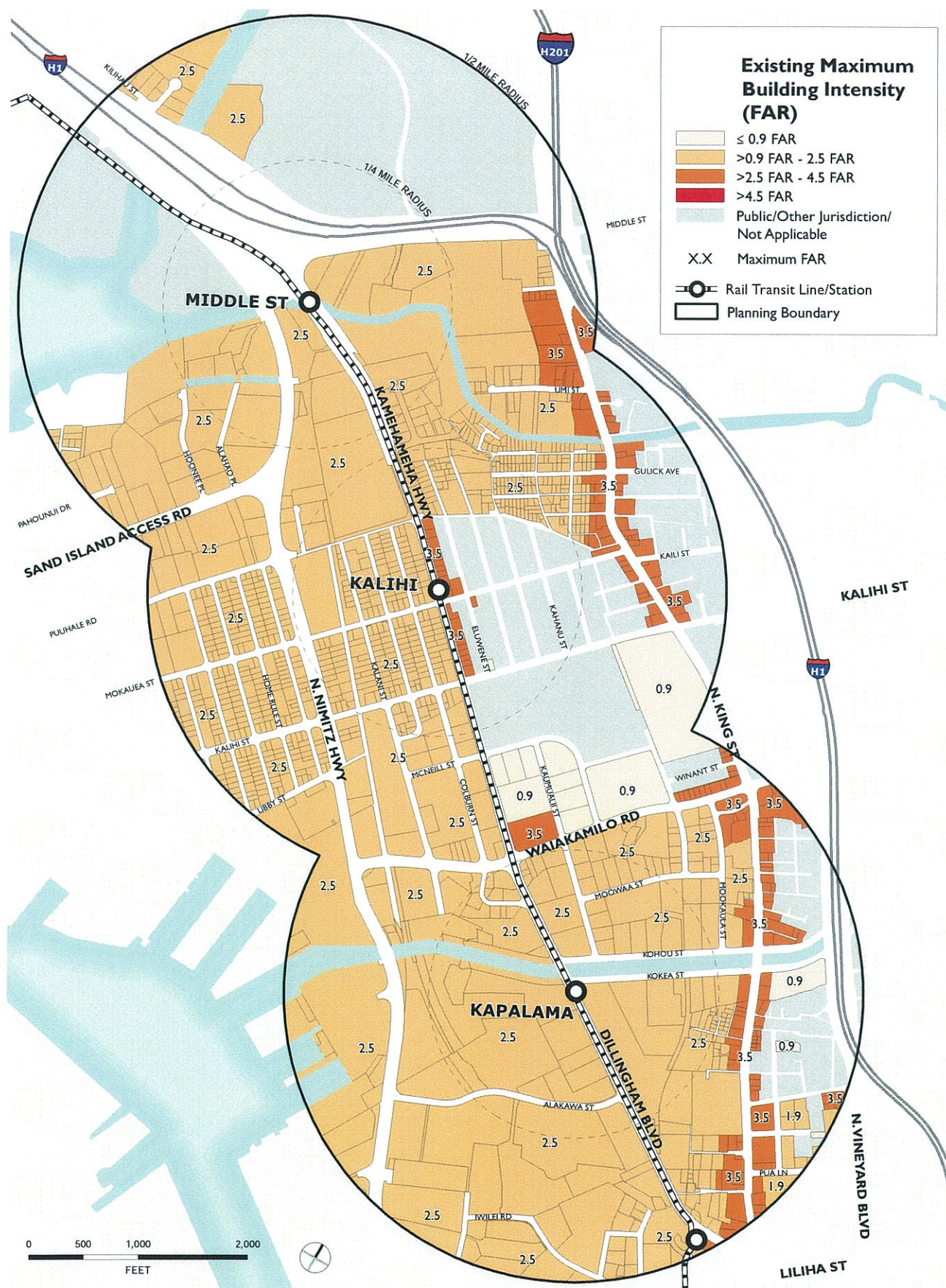
Funds do exist for projects that support TOD through the "Transportation Alternatives" program, which could provide funding for a variety of improvements including bike and pedestrian facilities, traffic calming, lighting and other safety infrastructure. Hawaii was allocated approximately \$7 million over two years for this program.

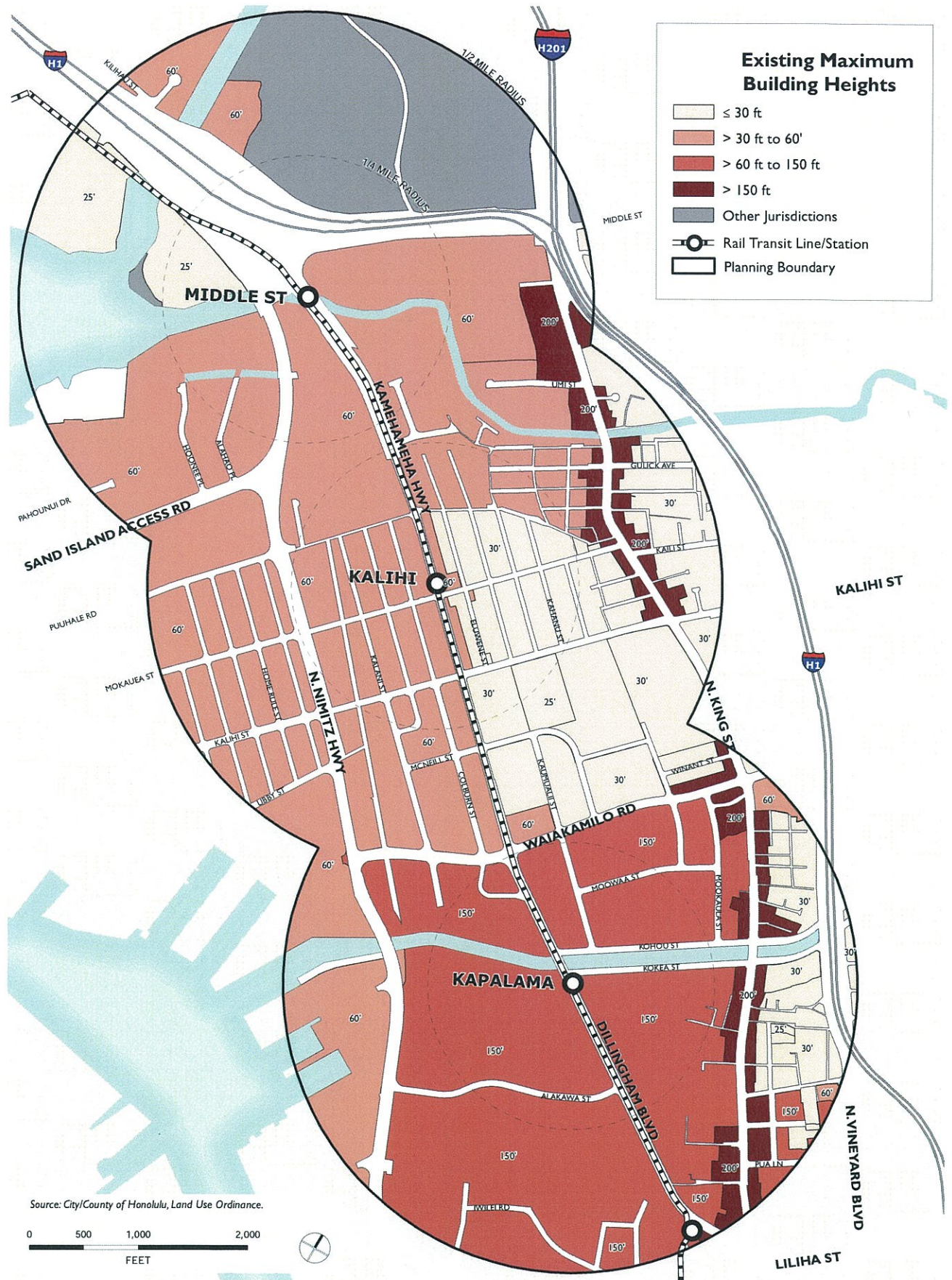
Brownfields Cleanup Revolving Loan Fund

The Hawaii State Office of Planning offers low and interest-free loans to clean up brownfield (contaminated) properties. The applicant prepares a report documenting the contamination found and an analysis of cleanup options and cost estimates, with recommendations as to the preferred response action. The cleanup action must be completed within 12 months of the date activities begin on site.

A APPENDIX







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B APPENDIX

ORGANIZATIONS REPRESENTED ON PROJECT ADVISORY COMMITTEE

AFFILIATION

| |
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| AARP |
| Action Realty Corporation |
| City & County of Honolulu Department of Community Services |
| City & County of Honolulu Department of Transportation Services |
| CORE Realty |
| First Hawaiian Bank |
| Helping Hands Hawaii |
| Honolulu Authority for Rapid Transportation |
| Honolulu City Council |
| Honolulu Community College |
| Kalihi Business Association |
| Kalihi-Palama Neighborhood Board #15 |
| Kamehameha Schools |
| Marukai Wholesale Mart |
| Oahu Transit Services |
| Palama Settlement |
| State of Hawaii Department of Business, Economic Development & Tourism, Office of Planning |
| State of Hawaii Department of Hawaiian Homelands, Land Management Division |
| State of Hawaii Department of Land and Natural Resources, Land Division |
| State of Hawaii Department of Transportation, Harbors Division |
| State of Hawaii Hawaii Public Housing Authority |
| Susannah Wesley Community Center |

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